



**Defense Nuclear Agency
Alexandria, VA 22310-3398**



DNA-TR-95-102

**Johnston Atoll Plutonium Contaminated
Soil Cleanup Project
5th Quarterly Report
01 August 1994 to 31 October 1994**

**TMA/Eberline
601 Scarboro Road
Oak Ridge, TN 37830**

September 1996

Technical Report

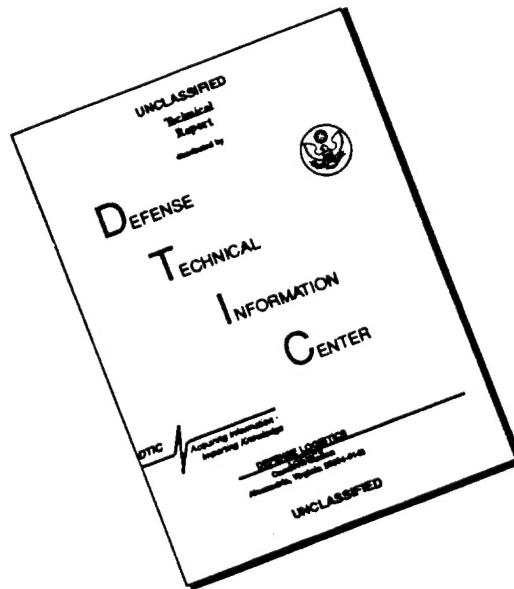
19960925 118

CONTRACT No. DNA 001-93-C-0148

Approved for public release;
distribution is unlimited.

UNCLASSIFIED

DISCLAIMER NOTICE



THIS DOCUMENT IS BEST QUALITY AVAILABLE. THE COPY FURNISHED TO DTIC CONTAINED A SIGNIFICANT NUMBER OF PAGES WHICH DO NOT REPRODUCE LEGIBLY.

DESTRUCTION NOTICE:

Destroy this report when it is no longer needed.
Do not return to sender.

PLEASE NOTIFY THE DEFENSE SPECIAL WEAPONS
AGENCY, ATTN: CSTI, 6801 TELEGRAPH ROAD,
ALEXANDRIA, VA 22310-3398, IF YOUR ADDRESS IS
INCORRECT, IF YOU WISH IT DELETED FROM THE
DISTRIBUTION LIST, OR IF THE ADDRESSEE IS NO
LONGER EMPLOYED BY YOUR ORGANIZATION.



REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204 Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE 960901		3. REPORT TYPE AND DATES COVERED Technical 940801 - 941031
4. TITLE AND SUBTITLE Johnston Atoll Plutonium Contaminated Soil Cleanup Project 5th Quarterly Report 01 August 1994 to 31 October 1994			5. FUNDING NUMBERS C - DNA 001-93-C-0148 PE - 62715H PR - OJ TA - EO WU - DH347900	
6. AUTHOR(S) Richard W. Doane Robert H. Grant				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) TMA/Eberline 601 Scarboro Road Oak Ridge, TN 37830			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Defense Special Weapons Agency 6801 Telegraph Road Alexandria, VA 22310-3398 FCIEE/Kimbrell			10. SPONSORING/MONITORING AGENCY REPORT NUMBER DNA-TR-95-102	
11. SUPPLEMENTARY NOTES This work was sponsored by the Defense Special Weapons Agency under RDT&E RMC Code B1340D OJ EO 33479 6420A 25904D.				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Thermo NUtech is the prime contractor for the Defense Nuclear Agency (DNA), responsible for the operation and maintenance of the Johnston Atoll Plutonium Contaminated Soil Cleanup Project. During this production period, the Scope of Work included movement of soil to and from the plant, processing contaminated soil through the Segmented Gate System (SGS) and Soil Washing System, packaging of waste soil for shipment, identification and implementation of process improvements, data collection and validation, and compliance with all applicable regulations governing environmental safety and health. The SGS utilizes arrays of sensitive radiation detectors coupled with sophisticated computer software to segregate contaminated soil from a moving feed supply on conveyor belts. Contaminated soil is diverted to a "hot" path for plutonium particles greater than 5000 Becquerels or to a supplemental soil washing process designed to remove dispersed low level contamination from a soil fraction consisting of very small particles. Low to intermediate levels of contamination are removed from the soil to meet DNA's criteria for unrestricted use of less than 500 Becquerels per kilogram of soil, with no "hot" particles. The low level concentrate is expected to be packaged for shipment to an approved defense waste disposal site.				
14. SUBJECT TERMS Radwaste Minimization Radioactive Waste Management			15. NUMBER OF PAGES 304	
Plutonium Waste Transuranic Remediation Radiological Technology			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED	20. LIMITATION OF ABSTRACT SAR	

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

CLASSIFIED BY:

N/A since Unclassified.

DECLASSIFY ON:

N/A since Unclassified.

SUMMARY

The Johnston Atoll Plutonium Contaminated Soil Cleanup Project (JAPCSCP) is a partnership between the Defense Nuclear Agency (DNA) and Thermo Analytical Inc. (TMA), whose goal is the environmental restoration of a 24 acre area of Johnston Atoll. This area was contaminated with Plutonium during atmospheric nuclear testing in 1962. The Project utilizes a combination of innovative radiation measurement technology and proven mining processes to identify and segregate Plutonium particles dispersed in coral sand. This project will benefit island residents and the environment by removing a radioactive hazard and by restoring valuable land to beneficial use.

TMA has operated the JAPCSCP under a prime contract to DNA since 06 August 1993. This contract calls for the processing of 100,000 metric tons of radioactively contaminated soil. This quarterly report summarizes JAPCSCP production, plant modifications and maintenance activities for the period from 01 August 1994 until 31 October 1994. During this period, a total of 6,129 metric tons of soil were processed. Authorized delays for the quarter totaled 2,425 sorter hours, or 606 regular hours, resulting in an adjusted production quota of 5,486 metric tons for this reporting period. The Project was 2,050 metric tons ahead of schedule at the end of the quarter.

The most significant event occurring this quarter was the complete evacuation of Johnston Atoll prior to Hurricane John and the subsequent recovery efforts. Damage to the island's infrastructure resulted in a two month halt in production. Damage to the JAPCSCP was minor in comparison to other island facilities but still required significant repairs prior to resuming operations.

CONVERSION TABLE

Conversion factors for U.S. Customary to metric (SI) units of measurement.

MULTIPLY -----> BY -----> TO OBTAIN
TO OBTAIN <----- BY <----- DIVIDE

cm	3.2808 E -2	ft
m ²	3.861 E -7	sq mile
cm ³	1.602 E -2	ft ³ /lb
g/cm ³	62.43	lb/ft ³
foot	3.048 000 X E -1	meter (m)
inch	2.540 000 X E -2	meter (m)
micron	1.000 000 X E -6	meter (m)
mil	2.540 000 X E -5	meter (m)
mile (international)	1.609 344 X E +3	meter (m)
liters/min	15.851	gal/hr
ounce	2.834 952 X E -2	kilogram (kg)
curie	3.700 000 X E 1	*giga Becquerel (GBq)
curies	3.7 E 10	dis/sec
curies	2.22 E 12	dis/min
curies	E 12	picocuries
Becquerel	2.703 E -11	curies
Becquerel	27.03	picocuries
rad (radiation dose absorbed)	1.000 000 X E -2	*Gray (Gy)

*The Gray (GY) is the SI unit of absorbed radiation.

TABLE OF CONTENTS

Section	Page
SUMMARY	iii
CONVERSION TABLE	iv
1 INTRODUCTION	1
1.1 GENERAL	1
1.2 SCOPE	1
1.3 OBJECTIVES	1
1.4 PROJECT STAFF	2
1.4.1 Personnel Assigned During this Period .	2
1.4.2 Project Management	3
2 PROJECT SCOPE	4
2.1 STATEMENT OF WORK	4
2.2 GOVERNMENT FURNISHED SERVICES	4
2.3 MODIFICATION TO STATEMENT OF WORK	4
3 PROJECT MANAGEMENT	5
3.1 TMA PROJECT MANAGEMENT	5
3.2 DEFENSE NUCLEAR AGENCY	5
3.3 TMA PERSONNEL ON-SITE	5
4 QUALITY CONTROL SAMPLING	6
4.1 QUALITY CONTROL SAMPLING	6
4.2 DIRECT SURVEYS	6
4.3 GRAB SAMPLING	7
5 SAFETY AND HEALTH	8
5.1 SITE SAFETY AND HEALTH PROGRAM	8
5.2 AIRBORNE RADIOACTIVITY MONITORING	8
5.3 ROUTINE CONTAMINATION SURVEYS	8
5.3.1 Daily FIDLER Surveys	9
5.4 PERSONAL PROTECTIVE EQUIPMENT	9
5.5 PERSONNEL MONITORING	9
5.6 RECORDS AND REPORTS	9

TABLE OF CONTENTS (Continued)

Section	Page
6 PLANT MODIFICATIONS AND MAINTENANCE	10
6.1 PLANT MODIFICATIONS	10
6.2 MECHANICAL MAINTENANCE	10
6.3 ELECTRICAL MAINTENANCE	10
6.4 ELECTRICAL MAINTENANCE AND CALIBRATION.	11
6.5 EFFICIENCY DETERMINATIONS.	11
6.6 ROUTINE PREVENTIVE MAINTENANCE.	12
6.7 TESTING AND SPECIAL EVOLUTIONS	12
6.8 DOWNTIME	13
6.9 DAILY OPERATIONAL CHECKS	13
7 SOIL PRODUCTION	15
7.1 PRODUCTION TOTALS	15
7.2 AUTHORIZED DELAYS	15
7.3 PRODUCTION VERSUS QUOTA	16
7.4 PRODUCTION RECORDS	16
7.4.1 Mass Processed Data Comparison	16
7.5 SUMMARY	16
Attachments	Page
1 STATEMENT OF WORK	19
2 GOVERNMENT FURNISHED SERVICES	25
Appendices	Page
A QUALITY CONTROL SAMPLE RESULTS	A-1
B AIR SAMPLING RESULTS	B-1
C SOIL PRODUCTION DATA	C-1
D AUTHORIZED DELAYS	D-1
E ACRONYMS AND SYMBOLS	E-1
F DEFINITIONS	F-1

SECTION 1
INTRODUCTION

1.1 GENERAL.

This quarterly report covers the period of 01 August 1994 to 31 October 1994. The report summarizes soil processing operations during the quarter and outlines major plant modifications and maintenance performed during the period.

1.2 SCOPE.

TMA is the prime contractor responsible for the operation and maintenance of the Johnston Atoll Plutonium Contaminated Soil Cleanup Plant. Work scope for this project includes movement of soil to and from the plant, processing of contaminated soil through the Segmented Gate Sorter System (SGSS) and the Soil Wash System (SWS), packaging of waste soil for shipment, identification and implementation of process improvements, data collection and validation, compliance with all applicable regulations governing environmental safety and health, and preparation of documents and written reports for submittal to DNA.

1.3 OBJECTIVES.

The principal TMA objective is to process contaminated soil at the JAPCSCP in a manner that ensures the production quota is met and the best possible volume reduction is achieved. Other objectives of the project include continuously upgrading plant performance and insuring compliance with all applicable federal regulations.

1.4 PROJECT STAFF.

TMA is the prime contractor to DNA for operation and maintenance of the JAPCSCP. Permanently assigned project staff consists of the following positions:

PROJECT MANAGER

SITE MANAGER

QUALITY ASSURANCE/QUALITY CONTROL TECHNICIAN

HEALTH PHYSICS TECHNICIAN

PLANT SUPERVISOR

PLANT ELECTRICIAN

TECHNICAL ASSISTANT

PLANT TECHNICIANS (4)

1.4.1 Personnel Assigned During this Period.

ASSIGNED

AGUADO, I.

GRANT, R.

BROWN, J.

LAW, D.

CORDOVA, D.

MONTANO, R.

CORDOVA, P.

RICHARDSON, J.

DELOVATO, A.

TRUJILLO, H.

DOANE, R.

Other personnel or subcontractor personnel may be assigned periodically on a temporary basis.

1.4.2 Project Management.

Project management and contract administration is provided by TMA, Oak Ridge. On-site supervision and soil processing operations are conducted by the Site Manager.

SECTION 2

PROJECT SCOPE

2.1 STATEMENT OF WORK.

DNA Contract Number DNA001-93-C-0148, Attachment 1, Statement of Work for Plutonium Contaminated Soil Cleanup Plant Operation, 24 March 1993, contains the scope, background, and objectives of the Statement of Work. Applicable documents, requirements (tasks), plant operations maintenance, waste disposal, plant decommissioning, safety and health, and engineering drawings are topics listed in the Statement of Work.

2.2 GOVERNMENT FURNISHED SERVICES.

DNA Contract Number DNA001-93-C-0148, Attachment 2, Government Furnished Services contains all equipment, material, and services the Government will provide to the Contractor to operate and maintain the soil cleanup plant.

2.3 MODIFICATION TO STATEMENT OF WORK.

One modification to the Statement of Work was made during the this period. On 31 August 1994 modification number P00003, which contained a limited stop work order directing that production activities cease until 30 September 1994. This was necessary due to limited on-island support available as a result of damages sustained during Hurricane John. TMA was directed to maintain an on-island presence of two personnel who were tasked with repair of hurricane damage.

SECTION 3
PROJECT MANAGEMENT

3.1 TMA PROJECT MANAGEMENT.

Project Manager	-	R. W. Doane
Contracting Officer	-	D. M. Robie

3.2 DEFENSE NUCLEAR AGENCY.

Contracting Officer	-	Mr. D. Gonzales
Assistant CO	-	Ms. C. Brice
Project Manager	-	Maj J. Kimbrell
Project Engineer	-	MAJ M. Melanson
Project NCOIC	-	SFC D. Richter

3.3 TMA PERSONNEL ON-SITE.

Site Manager	-	R. Grant
Plant Supervisor	-	J. Richardson
QA/QC	-	J. Brown
Technical Assistant	-	A. DeLovato
Health Physics Technician-		H. Trujillo
Electrician	-	D. Cordova
Plant Technician	-	P. Cordova
Plant Technician	-	I. Aguado
Plant Technician	-	D. Law
Plant Technician	-	R. Montano

SECTION 4
QUALITY CONTROL SAMPLING

4.1 QUALITY CONTROL SAMPLING.

Quality Control (QC) Sampling measurements verify that the soil sorting process is in control by identifying any activity levels in the clean pile which approach DNA's release criteria of 500 Bq/kg TRU activity, with no particles in excess of 5,000 Bq. QC measurements were made both by direct Field Instrument for the Detection Of Low Energy Radiation (FIDLER) surveys and by the collection of grab samples from the clean pile for analysis with a shielded chamber FIDLER. Grab samples collected were split, with the split sample being analyzed by on-site DNA staff for independent verification. Appendix A contains QC sample results.

4.2 DIRECT SURVEYS.

Direct FIDLER surveys of the pile were conducted at approximately two hour intervals during plant operations using a calibrated FIDLER probe and an Eberline ESP II Ratemeter. The instrument was calibrated for the detection of the 60 KeV photon from AM-241 and then corrected for total TRU using a known ratio. Normal background in the area for this instrument is 200-300 dps. The alarm setpoint is 500 dps. This setpoint is nearly a factor of 20 below the required action level, however, any particles which cause an alarm are removed from the pile. No discrete particles in excess of 5,000 Bq were detected by these surveys. Survey efforts were hindered by damage to the FIDLER probes which occurred during the island surveys performed by others after the hurricane.

4.3 GRAB SAMPLING.

Grab samples are taken from each clean pile as it is created at approximately two hour intervals. Samples are split for independent verification by DNA and analyzed in the on-site laboratory. A pre-determined mass is weighed and sealed in a Petri dish and then analyzed. Samples are counted using a Bicron FIDLER in a shielded chamber, connected to an Eberline MS-2 Mini Scaler. Appendix A, Table 1 is a listing of all QC Samples taken during the quarter.

There were a smaller number of QC samples taken this quarter due to the hurricane evacuation and recovery efforts. Production for the quarter was limited to 5,261 metric tons by the hurricane, compared to over 12,000 tons the previous quarter. This reduced production and the resultant decrease in the number of QC samples drawn complicated the comparison of this quarter's results to those of last quarter. There were three days during the quarter on which QC samples were found to exceed 500 Bq/kg. In each case the sample was split and found to contain a single particle which exceeded 500 Bq, but not 5,000 Bq. All three piles were released. This seems to indicate an improvement over last quarter in which samples exceeded criteria on eleven days and several small piles required reprocessing. This improvement can be partially attributed to the decreased production and particularly attributed to the lower specific activity of most of the soil processed this quarter.

SECTION 5
SAFETY AND HEALTH

5.1 SITE SAFETY AND HEALTH PROGRAM.

The JAPCSCP has implemented a Site Safety and Health Program which addresses the safety hazards expected on the project such as standard industrial safety practices for work around heavy equipment, heat stress and radiological safety. No hazardous chemicals are expected on the project. The primary radiological hazard expected on the project is internal exposure of workers to transuranic radioactive materials. In order to insure protection of workers and island residents, a comprehensive Air Sampling and Contamination Control Program has been established.

5.2 AIRBORNE RADIOACTIVITY MONITORING.

Air samples are taken continuously at various locations around the plant during operation and analyzed on site. Air sample results are compared to the Pu-239 "Y" retention class criteria provided in 10 CFR 20, Appendix B, Table 1. The Derived Air Concentration (DAC) value for this isotope and retention class is $7 \text{ E-12 } \mu\text{Ci/ml}$. An administrative limit of 20% of the DAC value has been established to preclude the need for tracking DAC-Hours. No air samples drawn this quarter approached 20% of the DAC. Appendix B contains results for air samples performed during the quarter.

5.3 ROUTINE CONTAMINATION SURVEYS.

Weekly surveys were performed in building 795 for loose surface alpha contamination. No removable alpha contamination was noted by these surveys this quarter.

5.3.1 Daily FIDLER Surveys.

A scan survey is performed daily in all office, eating, drinking, smoking, and latrine areas in or adjacent to building 795. These surveys are performed using a calibrated FIDLER Probe with an Eberline ESP II Survey Instrument set in the PHA mode with a 60 KeV window to detect the AM-241 photon. Any activity noted which exceeds two times the background is recorded on the daily survey and remediated. No contamination was noted in the clean area this quarter.

5.4 PERSONAL PROTECTIVE EQUIPMENT.

Personal Protective Equipment (PPE) such as Anti-Contamination Clothing, Safety Shoes, Safety Glasses, Hard Hats and Hearing Protection are issued to each worker. Specific PPE requirements for each work situation are dictated on a case by case basis.

5.5 PERSONNEL MONITORING.

Personnel monitoring for internal exposure to Plutonium is accomplished through routine urine samples submitted to DNA to be forwarded to the US Air Force Radiological Health Laboratory. All sample results received to date have indicated less than minimum detectable Plutonium activity.

All personnel monitor for contamination prior to exiting the RCA or entering building 795. There were no personnel contaminated during the quarter.

5.6 RECORDS AND REPORTS.

Survey records are maintained on file in building 795.

SECTION 6
PLANT MODIFICATIONS AND MAINTENANCE

6.1 PLANT MODIFICATIONS.

No significant modifications to the plant were made during this quarter.

6.2 MECHANICAL MAINTENANCE.

Mechanical maintenance performed this quarter was primarily routine preventive maintenance. Some recovery was required after the hurricane, including wash down and lubrication of all conveyors, replacement of belts blown off by the high winds and collection of debris from the site and settling ponds. Routine valve maintenance was performed on plant air valves and soil wash system valves as required. A new sheave was installed on the daybin conveyor motor to reduce belt speed.

6.3 ELECTRICAL MAINTENANCE.

Hurricane John had a significant impact on plant electrical components. Upon our return to the island after the storm, all components were checked for grounds and eight motors were found to be damaged. All eight motors were removed and replaced. Damaged motors were disassembled and baked by RSN Generator shop personnel and returned to service. A junction box for the Unit 3 and 4 Sorter Feed Scales was found to contain water resulting in damage. That box was repaired and the scale recalibrated.

Another electrical project completed after the hurricane was the rewiring of the crusher. After the Seabees completed repairs on the

crusher in August, an RSN inspection revealed deficient wiring. RSN was unable to make the necessary changes in a timely manner due to the heavy work load after the hurricane; so DNA requested that our electrician complete the necessary modifications. New conduit and wiring was run and the crusher was rewired in accordance with the specifications provided by RSN.

The final plant electrical problem noted this quarter was an inability to maintain the appropriate sorter belt speed for Units 3 and 4. Trouble shooting was performed on the Variable Frequency Drive Motor Controllers. No faults were found on the controllers, however, the programming was modified to provide a wider operating band. This corrected the error and allowed the belt to run within specifications.

6.4 ELECTRICAL MAINTENANCE AND CALIBRATION.

The semiannual electronic calibration of the sorters was performed the week of 10 October 1994. Numerous problems were discovered with electronic components. A total of six detectors, six detector boards, two Master Controller boards and two modems required replacement. In addition, two detector boards were repaired and reused. Upon completion of these repairs, all four units were recalibrated and efficiency determinations performed.

6.5 EFFICIENCY DETERMINATIONS.

The efficiency determination procedure was further revised to address DNA concerns. For particle efficiencies the source was passed beneath each detector a total of 30 times. The average of those 30 passes was used as the particle efficiency and the data was analyzed for statistical flaws. The distributed efficiency is in essence an average of the efficiencies for detectors 1-8. For distributed

efficiencies, the source was passed under each detector 6 times. The average of those six values was entered as the detector distributed efficiency. The system then takes those eight values and averages them to establish the system distributed efficiency. The system distributed efficiency is the value which is used by the Master Controller board for all distributed activity determinations.

6.6 ROUTINE PREVENTIVE MAINTENANCE.

A regular preventive maintenance program was followed in order to minimize plant downtime. This program included daily and weekly lubrication of plant equipment, weekly cleaning of sorter belts and gates, and weekly gate timing checks. Corrosion control activities were performed as required.

6.7 TESTING AND SPECIAL EVOLUTIONS.

One special evolution was performed during this quarter. During the week ending 23 October 1994, Sorters 3 and 4 belt speed was reduced to 20 feet per minute. Efficiency determinations were made at that belt speed and a test was run to determine if system capability to sort material containing high particle activity was significantly improved by the lower belt speed. The units were started and pre-operational checks were performed as normal. The source of feed for the test was the hot particle pile which contains material that was diverted at 30 feet per minute due to hot particles. Much of the material in the hot particle pile is coral sand which could be released. This material is clean material which is diverted along with the Plutonium particle. Due to the large amount of this material which has been compiled to date, a cost effective method of further volume reducing the stockpile is needed. Approximately five tons of this material was processed with over 90% diverted as contaminated. It was concluded from this

test that the high concentration of particles present in this material eliminates the systems capability to sort effectively due to the limitation of counting statistics incurred when a large number of time slices are removed from the distributed matrix. After the test, the belt speed was returned to 30 feet per minute and the efficiencies returned to their previous values.

6.8 DOWNTIME.

Downtime is defined as that portion of the normal 60 hours per week work schedule in which soil processing is not accomplished due to routine plant maintenance or repair. Normal start-up and shut-down time, time spent on modifications or testing required by DNA or other delay time authorized by DNA, does not count as downtime. There were 30 hours or 4% devoted to plant maintenance and unscheduled repairs this quarter. The contract requires that downtime be maintained less than 40%.

6.9 DAILY OPERATIONAL CHECKS.

Daily and weekly operational checks are performed on each unit in order to verify proper function of the system. Prior to start-up each day, background count levels are checked on each sorter. A source check is performed on individual detectors to verify that they are functioning and to verify that the gate actuates at the proper time to catch a simulated hot particle. The sorter belt speed is timed twice per day during operation to verify that it is within specification. Source checks are performed again twice per day during operation. Gate actuation times and the sorter belts are checked weekly and the sorter belts are washed down periodically to prevent a gradual increase in background which would reduce system efficiency. Semiannual electronic calibrations and efficiency determinations are

also performed to insure continued safe and efficient plant performance. These operational checks, combined with the daily clean pile surveys and sampling, serve to provide quality assurance for the program.

SECTION 7
SOIL PRODUCTION

7.1 PRODUCTION TOTALS.

During this quarter of the contract period, 6,129 metric tons of soil were processed. This total included 5,261 metric tons of soil which met DNA release criteria and 868 metric tons of soil which were diverted for further processing. The average weight reduction for soil processed this quarter was 82%. Detailed data on soil production for the quarter is included in Appendix C.

7.2 AUTHORIZED DELAYS.

Authorized delays include halts in soil processing due to inclement weather, performance of DNA required testing or modifications and non-availability of government furnished equipment. Weekly reports listed delay periods for each week as approved by the DNA Project Engineer. Delays for each week adjusted the contract specified production requirement of 1,886 metric tons weekly. Each sorter-hour of authorized delay reduced the weekly quota by 7.9 metric tons. For example, if rain resulted in a full day's loss of production, 40 sorter hours would be lost (4 sorters x 10 hours per day). This would result in a reduction of the weekly quota by 316 metric tons (40 sorter-hours per day x 7.9 tons per sorter per hour).

A total of 60.6 days were recorded during the quarter as authorized delays. This large delay was primarily due to the evacuation of the island on 25 August 1994 in anticipation of the arrival of Hurricane John. The JAPCSCP staff did not return to the island in full force until 17 October 1994. The reduced staff present in the interim performed repairs due to damages inflicted by the storm. The weekly

production quota was adjusted to allow for authorized delays as approved by the on-site DNA Project Engineer.

7.3 PRODUCTION VERSUS QUOTA.

Total soil processed during this quarter exceeded the quota for the period by 643 metric tons. The total production for the contract to date exceeds the contract quota by 2,050 metric tons.

7.4 PRODUCTION RECORDS.

Appendix C contains the Daily Production Records for this reporting period, including the Daily Work History totals and the JA Soil Cleanup Log Overall Summary Report.

7.4.1 Mass Processed Data Comparison.

One of the ongoing project goals is to maintain close agreement in the mass process data calculated by the JACC software and that provided by weigh scales. To this end, a regular calibration and maintenance program has been instituted for the scales and feed density is measured regularly and input into the software. Mass processed this quarter, as reported by the software, was 6,129 MT. Mass processed according to the sorter feed scales was 6,223 MT. The difference in those values is 94 MT, or about 1.5%.

7.5 SUMMARY.

The Johnston Atoll Plutonium Soil Cleanup Project was impeded by island evacuation and Hurricane recovery efforts this quarter. The production quota was reduced to 5,486 MT. Most of TMA personnel were off-island from 25 August 1994 until 17 October 1994. Units 3 and 4

were brought back on-line after the repairs to the rock crusher. A total of 39,343 MT remain on the base effort. Full scale production, installation of the pond dredging system and further research on hot particle material volume reduction are the major efforts projected for the next quarter.

ATTACHMENT 1

STATEMENT OF WORK

FOR

24 MAR 93

PLUTONIUM CONTAMINATED SOIL CLEANUP PLANT OPERATION

1.0 SCOPE

The required work is to maintain and operate the Johnston Atoll (JA) plutonium contaminated soil cleanup plant. It includes hauling soil to and from the plant, processing contaminated soil, removing clean soil, packaging waste, recommending and making process improvements, developing data to demonstrate the process is under control, operating safely and efficiently, and preparing written reports. It requires development and maintenance of a decommissioning plan and implementing the plan at project completion.

1.1 Background

a. The Defense Nuclear Agency (DNA) has built a unique plant to clean plutonium contaminated soil that is at Johnston Atoll (JA). The plant was constructed in 1989 and significantly improved in 1991. It combines conventional mining technology with sophisticated radiation detection equipment. By mining, most of the soil becomes suitable for use without radiological restrictions.

b. Johnston Atoll is 800 miles southwest of Honolulu, Hawaii. In 1962, nuclear weapon tests contaminated a significant portion of the island with plutonium. The contamination now is in a complex and uncertain pattern throughout a 24-acre area. It is present as both isolated point sources ("hot particles") and volume sources ("dispersed contamination") in otherwise clean soil. (Hot particles are much larger than particles making up dispersed contamination.) The soil enclosing the contamination totals about 100,000 cy.

c. The Government performs in situ radiological surveys to pinpoint the location of contaminated soil. It uses earth moving equipment to excavate the contaminated soil and haul it to a stockpile area downwind of the cleanup plant. It screens the soil to separate minus 1/2 inch from plus 1/2 inch. The oversize soil is inherently clean, but it must be reduced to minus 1/2 inch for processing through the plant to ensure it is clean. The contractor processes the plus 1/2 fraction through a crushing system in the stockpile area to reduce it to minus 1/2 inch. The crushed soil (mostly clean) is processed through the plant separate from the minus 1/2 inch soil (some contamination) to prevent cleanup by dilution.

d. The cleanup plant has two process paths. The Contractor feeds the minus 1/2 inch contaminated soil into a hopper at the start of path one. The hopper underflow conveys beneath magnets to remove any steel rubble and onto a vibrating screen to remove any plus 0.5-in gravel which may be present. The minus 0.5-in soil splits and conveys in a thin layer on two 3-foot wide flat belts beneath radiation detectors. A computer processes radiation signals and controls the position of eight gates across each conveyor end. In one position a gate allows soil to fill to a conveyor for removal to a clean soil pile. In the other position a gate diverts soil to a "hot soil" conveyor for further processing. Each gate can remain in either position for as little as two seconds. These conveyor systems are called sorter 1 and sorter 2.

e. The hot soil conveyor has a single gate at its end. The computer gates soil with hot particles to a waste container and dispersed contamination through a surge bin to a spiral classifier. The classifier mixes water and soil, and it decants suspended fine particles while simultaneously draining and conveying coarse particles out of the classifier. The fine particles, rich with dispersed

contamination, are pumped to a settling pond. Pond sediment can be removed and recycled or packaged as waste. The coarse and predominantly clean soil from the classifier is discharged to the ground for air drying and subsequent sorting to verify cleanliness.

f. The second process path also has a hopper, splitter, and two multi-gate soil sorters. These sorters are called sorter 3 and sorter 4. The Contractor uses this path primarily for processing crushed oversize soil and soil which has been washed of fines. The path is also used for special work such as reprocessing hot particle concentrate. The hot soil conveyor from sorters 3 and 4 connects to the conveyor which sends contaminated soil to the surge bin.

g. The plant has numerous weigh scales and mass and volume flow meters. It has speed controllers for precisely regulating speed of sorting conveyors, and controls for testing sorter gate response times. Soil density gages and feed soil radiation monitors are to be installed.

h. The plant is controlled from a computer console in an office adjacent to the plant. The computer records data on plant performance including summaries of radiation measurements every 20 seconds. Data are processed by personal computer and analyzed for assuring process control and material balance.

i. The improved mining plant was tested and made operational in 1992. To 13 Mar 93, 115 days were devoted to processing soil on a production basis. These 10-hr workdays averaged 1.9 hrs for plant startup, 6.0 hrs of processing, 1.4 hrs for shutdown, and 0.7 hrs for system pause. About 10,800 tons of soil were processed. This is equivalent to 8,600 cy of soil in the ground. The daily processing rate averaged about 94 tons, but the trend was increasing and several days exceeded 180 tons. All soil fed to the plant came from contaminated ground, and 98 percent was clean at less than 500 Bq/kg after processing. The average specific activity for clean soil was 59 Bq/kg. The plutonium recovered totalled 980 MBq and 300 mg. Performance statistics were developed from 270,000 radiation count records produced by the plant computer.

j. The plant is still being perfected. The computer program which controls gates has progressed to version 10.0. An independent verification and certification of the program identified some bugs and opportunities for program improvement. Some inconsistencies persist concerning material balance. Additional diagnostic instruments are needed. (Section 1.1.g.) The rock crushing system is being replaced. The JA environment is harsh, and the remote location creates logistics problems. Some research and development is in process, and the results may suggest the need for plant or cleanup process modifications.

k. The cleanup of plutonium contaminated soil at JA may be completed as early as 1995. The effort will eliminate a radiological hazard and improve the environment. The small amount of waste will be sent to an approved waste handling facility. The clean soil will be returned to the ground and used in construction projects for fill or bedding.

1.2 Objectives

This Statement of Work (SOW) lists specific tasks and services required by the Contractor in support of the Johnston Atoll plutonium contaminated soil cleanup project. The principal Contractor work involves processing contaminated soil through the soil cleanup plant.

2.0 APPLICABLE DOCUMENTS

a. Johnston Atoll TRU Soil Cleanup-Up Project, Assembly & Demonstration of the "TRUClean" Soil Clean-up Plant, (Phase One DRAFT), 17 Aug 89.

- b. Johnston Atoll Plutonium Contaminated Soil Cleanup Project, Annual Report, Phase Two, Plant Modification, Performance Testing, and Operation, October 15, 1992.
- c. Johnston Atoll Plutonium Contaminated Soil Cleanup Project, Annual Report, Option Period One, December 31, 1992.
- d. Contamination Monitor Technical Manual for Johnston Atoll Conveyor System, TMA/Eberline, October 1991, Revised to version 8.0.
- e. JA Soil Cleanup Plant Computer Source Code and Operations Manual.
- f. JA Soil Cleanup Plant Project Management Plan.
- g. JA Soil Cleanup Quality Assurance Plan.
- h. JA Soil Cleanup Plant Operating Procedures.
- i. Memorandum for TMA, Subject: Guidance for Plant Decommissioning and Maintenance, September 15, 1992.
- j. JA Soil Cleanup Plant Decommissioning Plan.

3.0 REQUIREMENTS (TASKS)

The Contractor shall accomplish the tasks listed under the following task categories. The contractor shall revise the Project Management Plan to detail its approach to fulfilling these tasks and other contract requirements. (CDRL, 4)

3.1 Work Periods

- a. Work will commence at Johnston Atoll within 15 days after contract award. A new contractor will have no more than two weeks at the work site for familiarization with the soil cleanup plant. Additional time will be allowed for a new contractor who cannot receive instruction from the incumbent contractor, or in the event the plant has been idle for an extended period at contract award and repairs or abnormal maintenance is necessary.
- b. The normal workweek at Johnston Atoll will be from Monday through Saturday. Weekly production quotas stated below are for the period Monday through Saturday. The quotas will be prorated for short weeks due to holidays, plant modifications and modification tests approved by the DNA project manager which cause lost time, and at the start and end of operations as for the week when there is no more contaminated soil to process.
- c. For determining weekly production and percent downtime (no production as a percent of available hours), (1) "production hours" are the greatest net sorting hours reported by the plant computer for sorter 1, sorter 2, or sorter 4, and (2) "available hours" are the actual work hours reduced by any hours for scheduled plant modifications and testing of modifications. "Net sorting hours" are obtained from the plant daily log summary after exclusion of records which do not reflect true production. Excluded records include those reported when the sorter conveyor is empty or when a system test is conducted.

3.2 Plant Operations

(For quantities with "tons" as a mass unit in this section, the ton is metric and equal to 1,000 kilograms (kg).)

a. Furnish equipment operators to haul soil from the feed-soil stockpile area and feed soil to the cleanup plant. Process soil through the plant until DNA decides there is no more soil to process. DNA will remove clean soil from the plant to the lay-down area toward the east of the plant.

b. Furnish equipment operators to haul soil and run soil through the cleanup plant. Process soil through the plant until DNA decides there is no more soil to process. Remove clean soil from the plant to the lay-down area toward the east of the plant.

(1) Process the minus 1/2-inch predominantly contaminated soil through sorter 1 and sorter 2. The minimum weekly production rate for both sorters is 900 tons total. (Section 3.1.) This rate applies for the type of soil which has been processed to date and which leads to a weight reduction over 90 percent.

(2) Process the plus 1/2-inch predominantly clean soil through sorter 4. This oversize soil is first crushed in the sizing/crushing system. The minimum weekly production rate for sorter 4 is 400 tons as long as there is a supply of crushed soil. (Section 3.1.)

(3) Remove hot soil diverted from the plant at the hot particle gate to a storage area for subsequent treatment. For hot soil not diverted, process soil through the washing loop to remove fine particles before the 80-ton surge tank fills. Remove the washed soil to a storage area for subsequent treatment.

(4) Reprocess soil from the storage areas in (3) above through sorter 3. Assay the concentrate after recycle and package for waste disposal. Sorter 3 may also be used to process crushed oversize soil to reduce backlogs and improve performance.

(5) Manage the settling ponds which receive fine soil removed by the soil washing loop. Remove sediment when necessary to prevent exceeding pond capacity. Assay the sediment and package for waste disposal. In the event research and development by others leads to a beneficial method for concentrating plutonium in sediment, process sediment by that method before packaging for waste disposal.

b. Maintain an efficient operation which has downtime for primary sorters 1 and 2 of less than 40 percent. (Section 3.1.)

c. Continue processing or reprocessing soil until waste mass is reduced to the point of diminishing returns where the cost of additional cleanup exceeds the cost of disposal or the waste mass is sufficiently small and concentrated that it may be stored securely on Johnston Island pending disposal at an approved transuranic element waste disposal facility. Based on the estimated volume of soil to be processed (100,000 cy or 125,000 tons), estimated disposal costs, and programmed budget, at least a 98 percent weight reduction overall is required. ("Weight reduction" is ratio of clean soil mass to process soil mass expressed as a percent.)

d. Produce definitive data on a regular basis to demonstrate the plant process is under control. Data shall include measured weights and volumes. If data do not show material balance, determine the cause and remedy the deficiency. (CDRL, 3)

e. Provide definitive data on a routine basis that clean soil meets contract specifications, production meets or exceeds quotas, time utilization holds downtime to less than 40 percent, and sorting records from the daily log are complete with inconsistencies either absent or being corrected. (CDRL, 3)

f. Revise and maintain plant operating procedures as necessary so the written procedures accurately state the steps necessary for operating the plant safely and properly. (Section 2.g.)

g. Revise and maintain the quality assurance (QA) plan (Section 2.f) as necessary to provide assurance the QA objectives, stated in the project management plan (section 2.e), are fulfilled in compliance with DOE Order 5700.6A. Obtain approval from the DNA project manager before implementing changes.

h. Perform other tasks as required to make soil cleanup efficient and satisfactory within the scope of this Statement of Work. (CDRL, 5)

3.3 Plant Maintenance

a. Maintain the plant including hardware and software. Provide personnel with adequate skills to identify and diagnose problems and correct the problems or cause them to be corrected.

b. Develop and implement a preventive maintenance and corrosion control program which aids in reducing plant downtime and repair costs, and extends plant life at least until the total inventory of JA contaminated soil is processed. Maintain all assigned government furnished property, including any which is inactive or removed from the plant and placed in storage at the operating site.

c. Maintain a spare parts inventory to minimize downtime. Identify critical spare parts, considering mean time between failures, by nomenclature, quantity, vendor, and estimated costs. Submit purchase requests for spare parts to the DNA project manager to avoid production delays due to lack of spare parts. Allow sufficient lead time on purchase requests for compliance with Federal Acquisition Regulations. Provide a list of suggested suppliers, estimated costs, and estimates of weight and cube for use in determining transportation costs. (CDRL 9, 10)

3.4 Plant Improvements

a. Evaluate ways to improve the plant as part of continuous process improvement. Present concepts to the DNA project manager for approval. (CDRL, 6) When approved, proceed with planning for the improvements.

b. For improvements which require procurement of components, prepare procurement packages listing salient features and minimum requirements, estimated costs, and suggested suppliers. Submit procurement packages to the DNA project manager for procurement. Allow sufficient lead time on purchase requests for compliance with Federal Acquisition Regulations. Provide estimates of weight and cube for use in determining transportation costs, and spare parts and support - requirements. (CDRL, 9)

c. Develop schedules for implementing improvements and detail any support services and equipment needed for the implementation.

d. Continue to perfect the plant computer program and submit the revised code and software user's manual to the DNA project manager. (CDRL, 5)

3.5 Waste Disposal

a. Assay and package waste soil and other radioactive waste for transport and in compliance with Departments of Transportation (DOT) and Agriculture (USDA) rules and regulations.

b. Place any packaged waste soil in dry cargo freight containers or other storage facilities as directed by the DNA project manager for interim storage pending removal from JA.

c. Prepare shipping papers as required to transport waste soil from JA to a radioactive waste disposal facility. The papers should be complete and accurate to prevent penalty to DNA from violations of rules and regulations.

d. When directed by the DNA project manager, prepare documents as necessary for compliance with waste disposal regulations so that waste is accepted at the disposal facility without penalty to DNA due to violation of rules and regulations.

3.6 Plant Decommissioning

a. Revise as necessary the plant decommissioning plan so it is up to date and ready for implementation (Sections 2.h and 2.i.)

b. For components prematurely retired from the plant with useful life remaining, prepare the components for disposition when removed. Preparations may include decontamination, application of protective materials, packaging, and removal from the JA radiological controlled area.

c. When directed by DNA, implement the decommissioning plan. NOTE: Decommissioning is not expected until the JA plutonium contaminated soil cleanup project is complete.

3.7 Safety and Health

a. Provide for the safety of personnel within the radiological control area in compliance with the Occupational Safety and Health Standards, US Code of Federal Regulations, Title 29, Part 1910.

b. Maintain a radiation safety program to ensure control of contamination and personnel doses below limits and as low as is reasonably achievable.

3.8 Engineering Drawings

a. Maintain a complete library of engineering drawings and instruction and service manuals for components of the plant at the work-site. (CDRL, 1) Update engineering drawings as necessary to show "as is" conditions.

b. For plant modifications, develop engineering drawings (CDRL, 1).

c. Maintain a current index of engineering drawings and manuals.

3.9 Reports

a. Prepare and submit written work according to requirements of the contract data requirements list (CDRL). Reports including documents, logs, memoranda, correspondences, and other written materials are critical to ensuring success of the cleanup project. They must contain accurate and true data. They must be well organized and written in English with good grammar and style. Where deadlines exist, they must be submitted on time. (CDRL, 7)

b. In addition to financial reports required elsewhere by the Contract, prepare Funds and Man-hour Expenditure Reports and submit to the DNA project manager and DNA contracting officer. (CDRL, 2)

ATTACHMENT 2

GOVERNMENT FURNISHED SERVICES

The Government will provide all equipment and material to operate and maintain the soil cleanup plant, and

- a. Furnish electricity and water service for the soil cleanup plant.
- b. Provide subsistence and quarters and related support for contractor personnel assigned full-time to the project.
- c. Provide billeting for occasional Contractor top management visitors. The contractor is to provide an estimate of travel to include number of individuals, how long, and purpose. Government transportation will be made available if necessary. (Costs are to be paid by Contractor.)
- d. Provide a fork-lift and front end loader capable of lifting palettes and other general work for use by contractor certified operators.
- e. Provide overall radiation safety support, exclusive of plant operations, to include protective clothing, respirators and equipment for plant personnel, liquid nitrogen to operate germanium detectors, and dosimetry services. (The cleanup contractor will be responsible for packaging contaminated clothing for disposal and for laundering noncontaminated protective clothing.)
- f. Provide repairs, common supplies as requested by the contractor (to exclude routine office supplies), and other support services as necessary and subject to the approval of DNA.
- g. Deliver contaminated soil to the vicinity of the cleanup plant feed point so as to sustain a rate of 1,000 tons per week.
- h. Remove clean soil from the plant service area and the RCA. As much as 2,000 tons may accumulate in piles at either stacker boom before it must be relocated.
- i. Provide containers and palettes as necessary for handling radioactive waste.
- j. Remove packaged radioactive waste from the RCA and load to ship for sealoift to a CONUS disposal facility. A single shipment is expected at project completion.
- k. Grade and contour areas after contaminated soil has been removed for cleanup.

- l. Provide accounting services for on-island support.
- m. Provide routine US postal services. (Costs are to be borne by the Contractor.)
- n. Provide custodial services for office spaces in Building 795, the plant control facility.
- o. Provide available health services for Contractor personnel. (Costs are to be borne by the Contractor.)
- p. Provide available packing and crating service as requested by the Contractor and approved by DNA. This requirement is not expected to be frequent, but only in instances when plant components must be returned to vendors for repairs pertaining to the operations of the plant.
- q. Provide scheduling, ticketing, orders for AMC flights and other routine transportation services for Contractor personnel. (Costs are to be borne by the Contractor.)
- r. Provide services for transport of oversized waste containers as approved by DNA.
- s. Provide cargo palette service, including off and on loading of liquid nitrogen containers transported weekly between Hickam, AFB and JA.
- t. Provide aircraft cargo services for plant components (repair and replacement parts) as required.
- u. Provide routine services and general maintenance as necessary for Building 795 and grounds.
- v. Provide routine refuse disposal from the RCA.
- w. Provide JA internal mail distribution.
- x. Provide and maintain at least one telephone hookup in Building 795. Currently two numbers (2011 and 2033) are provided, and one is available for FAX transmission.
- y. Handle message traffic from the Contractor.
- z. Provide morale, welfare and recreation services for contractor personnel as provided for other island personnel.
- aa. Provide office furnishings within Building 795 as available and approved by DNA.

- ab. Provide POL for vehicle(s) operated by the Contractor.
- ac. Provide one van for contractor use to deliver and pickup supplies and perform other routine work.
- ad. Provide protective masks for contractor personnel as long as chemical agents are present on JA.

APPENDIX A

QUALITY CONTROL SAMPLE RESULTS

JOHNSTON ATOLL PLUTONIUM SOIL CLEAN UP PROJECT

Soil Sampling Results
from 01AUG to 31OCT

Date/Time/Pile	Sample Number	Gross Counts	Gross CPM	Concentration (Bq/kg)
08-01-94/0730/1,2	2700	1088	54	<108
08-01-94/0930/1,2	2701	1100	55	<108
08-01-94/1130/1,2	2702	2176	109	886
08-01-94/1405/1,2	2703	1205	60	138
08-01-94/1430/1,2	2704	1255	63	176
08-02-94/0800/1,2	2705	1237	62	196
08-02-94/1000/1,2	2706	1031	52	<106
08-02-94/1230/1,2	2707	1351	68	283
08-02-94/1430/1,2	2708	1092	55	<106
08-03-94/0740/1,2	2709	998	50	<105
08-03-94/0930/1,2	2710	1057	53	<105
08-03-94/1030/1,2	2711	1224	61	174
08-03-94/1300/1,2	2712	1015	51	<105
08-04-94/0830/1,2	2713	980	49	<90
08-04-94/1030/1,2	2714	1038	52	<90
08-04-94/1520/1,2	2715	1129	56	110
08-05-94/0800/1,2	2716	1112	56	103
08-05-94/0925/1,2	2717	1991	100	707
08-05-94/1110/1,2	2718	1487	74	361
08-05-94/1340/1,2	2719	1182	59	151
08-05-94/1520/1,2	2720	1081	54	<93
08-06-94/0805/1,2	2721	1152	58	<119
08-08-94/0840/1,2	2722	1015	51	<106
08-08-94/1100/1,2	2723	996	50	<106
08-08-94/1310/1,2	2724	1064	53	<106
08-08-94/1410/1,2	2725	1243	62	169
08-09-94/0940/1,2	2726	998	50	<100
08-09-94/1000/1,2	2727	1119	56	<100
08-09-94/1330/1,2	2728	1214	61	160
08-09-94/1430/1,2	2729	1089	54	<100
08-10-94/0840/1,2	2730	1229	61	191
08-10-94/1015/1,2	2731	1004	50	<102
08-10-94/1250/1,2	2732	1147	57	130
08-10-94/1430/1,2	2733	1096	55	<102
08-11-94/0805/1,2	2734	1135	57	<103
08-11-94/1005/1,2	2735	3986	199	2232
08-11-94/1105/1,2	2736	1319	66	238
08-11-94/1305/1,2	2737	1409	70	306
08-11-94/1435/1,2	2738	1380	69	284
08-12-94/1500/1,2	2740	1123	56	<101
08-13-94/0900/1,2	2741	1158	58	<102
08-13-94/1035/1,2	2742	1244	62	160
08-13-94/1250/1,2	2743	1061	53	<102
08-13-94/1445/1,2	2745	1084	54	<102
08-15-94/0845/1,2	2745	1037	52	<100
08-15-94/1025/1,2	2746	1024	51	<100

JOHNSTON ATOLL PLUTONIUM SOIL CLEAN UP PROJECT

Soil Sampling Results
from 01AUG to 31OCT

Date/Time/Pile	Sample Number	Gross Counts	Gross CPM	Concentration (Bq/kg)
08-15-94/1330/1,2	2747	1019	51	<100
08-16-94/1245/1,2	2748	1212	61	134
08-16-94/1530/1,2	2749	1176	59	<107
08-17-94/1030/1,2	2750	1281	64	211
08-17-94/1230/1,2	2751	1254	63	191
08-17-94/1415/1,2	2752	1372	69	278
08-18-94/0830/1,2	2753	1342	67	245
08-19-94/1320/1,2	2754	1067	53	<104
08-19-94/1500/1,2	2755	1225	61	142
08-20-94/0930/1,2	2756	1024	51	<105
08-20-94/1030/1,2	2757	951	48	<105
08-20-94/1230/1,2	2758	999	50	<105
10-20-94/0830/1,2	2759	1477	74	357
10-20-94/1030/1,2	2760	1530	77	395
10-20-94/1430/3,4	2761	1172	59	138
10-21-94/0830/1,2	2762	1435	72	326
10-21-94/0830/3,4	2763	1216	61	170
10-21-94/1030/1,2	2764	1333	67	253
10-21-94/1030/3,4	2765	1150	58	122
10-21-94/1230/1,2	2766	1337	67	256
10-21-94/1230/3,4	2767	1273	64	211
10-22-94/1030/1,2	2768	1161	58	<92
10-22-94/1230/1,2	2769	1296	65	162
10-22-94/1230/3,4	2770	1161	58	<92
10-22-94/1330/1,2	2771	1205	60	102
10-22-94/1330/3,4	2772	1159	58	<92
10-24-94/0930/1,2	2773	1238	62	116
10-24-94/0930/3,4	2774	1100	55	<87
10-24-94/1500/1,2	2775	1517	76	287
10-24-94/1500/3,4	2776	1269	63	135
10-25-94/0750/1,2	2777	1150	58	122
10-25-94/1000/1,2	2778	1388	69	293
10-25-94/1000/3,4	2779	1365	68	276
10-25-94/1430/1,2	2780	1206	60	163
10-25-94/1430/3,4	2781	1302	65	231
10-26-94/0900/1,2	2782	1130	57	<87
10-26-94/0900/3,4	2783	1169	58	<87
10-27-94/0910/1,2	2784	1715	86	465
10-27-94/0915/3,4	2785	1089	54	<94
10-27-94/1205/1,2	2786	1290	65	181
10-27-94/1210/3,4	2787	967	48	<94
10-28-94/0945/1,2	2788	967	48	<94
10-28-94/0950/3,4	2789	978	49	<94
10-28-94/1400/1,2	2790	1187	59	112
10-28-94/1405/3,4	2791	1072	54	<94
10-28-94/1500/1,2	2792	1423	71	270

JOHNSTON ATOLL PLUTONIUM SOIL CLEAN UP PROJECT

Soil Sampling Results
from 01AUG to 31OCT

<u>Date/Time/Pile</u>	<u>Sample Number</u>	<u>Gross Counts</u>	<u>Gross CPM</u>	<u>Concentration (Bq/kg)</u>
10-28-94/1505/3,4	2793	985	49	<94
10-29-94/0800/1,2	2794	1448	72	286
10-29-94/0805/3,4	2795	1070	54	<94
10-29-94/0900/1,2	2796	1666	83	432
10-29-94/0905/3,4	2797	1135	57	<94
10-29-94/1015/1,2	2798	1597	80	386
10-29-94/1020/3,4	2799	1049	52	<94
10-31-94/0850/1,2	2800	1745	87	456
10-31-94/0855/3,4	2801	1077	54	<81

APPENDIX B

AIR SAMPLING RESULTS

JOHNSTON ATOLL PLUTONIUM SOIL CLEANUP PROJECT
Air Sampling Results from 1 AUG 94 to 31 OCT 94

Sample Date	Reported Activity $\mu\text{Ci/ml}$	Critical Level $\mu\text{Ci/ml}$	Sample Area Description
01-AUG-94	1.2E-13	1.4E-14	LOADER #9112
01-AUG-94	3.6E-14	4.6E-15	SORTER 1 AREA #1083
01-AUG-94	1.7E-13	1.4E-14	LOADER #9112
01-AUG-94	6.1E-14	5.0E-15	HOT PARTICLE BELT #7219
01-AUG-94	4.7E-14	4.6E-15	WEST PERIMETER #7218
03-AUG-94	5.0E-14	6.5E-15	HOT PARTICLE BELT #7219
03-AUG-94	3.9E-14	7.2E-15	SORTER 1 AREA #1083
03-AUG-94	1.2E-13	1.1E-14	WEST PERIMETER #7218
05-AUG-94	2.5E-14	6.2E-15	WEST PERIMETER #7218
05-AUG-94	2.9E-14	3.8E-15	HOT PARTICLE BELT #7219
05-AUG-94	2.5E-14	4.2E-15	SORTER 1 AREA #1083
09-AUG-94	8.1E-14	1.0E-14	SORTER 1 AREA #1083
09-AUG-94	8.8E-14	9.7E-15	HOT PARTICLE BELT #7219
09-AUG-94	1.3E-13	8.5E-15	WEST PERIMETER #7218
11-AUG-94	4.0E-14	8.1E-15	SORTER 1 AREA #1083
12-AUG-94	3.2E-14	4.1E-15	S1,2 HOT BELT AREA #7219
13-AUG-94	3.2E-14	4.0E-15	WEST PERIMETER #7218
13-AUG-94	6.5E-14	7.2E-15	SORTER 1 AREA #1083
13-AUG-94	3.5E-14	3.7E-15	S1,2 HOT BELT AREA #7219
13-AUG-94	1.9E-14	5.7E-15	SORTER 1 AREA #1083
13-AUG-94	4.5E-14	5.7E-15	S1,2 HOT BELT AREA #7219
13-AUG-94	5.6E-14	1.2E-14	SORTER 1 AREA #1083
13-AUG-94	2.6E-14	4.2E-15	S1,2 HOT BELT AREA #7219
15-AUG-94	6.7E-14	9.0E-15	SORTER 1 AREA #1083
15-AUG-94	2.2E-14	4.8E-15	S1,2 HOT BELT AREA #7219
15-AUG-94	2.5E-14	4.9E-15	SORTER 1 AREA #1083
15-AUG-94	6.0E-14	8.7E-15	S1,2 HOT BELT AREA #7219
15-AUG-94	4.3E-14	4.0E-15	S1,2 HOT BELT AREA #7219
16-AUG-94	3.2E-14	8.5E-15	SORTER 1 AREA #1083
16-AUG-94	8.2E-14	7.7E-15	S1,2 HOT BELT AREA #7219
16-AUG-94	1.8E-14	8.6E-15	SORTER 1 AREA #1083
16-AUG-94	4.5E-14	8.4E-15	S1,2 HOT BELT AREA #7219
16-AUG-94	7.2E-14	5.5E-15	S1,2 HOT BELT AREA #7219
16-AUG-94	9.9E-15	5.0E-15	S2 STAIRS #1079 RAS-1
16-AUG-94	4.8E-14	5.8E-15	SORTER 1 AREA #1083
16-AUG-94	3.4E-14	5.1E-15	S1,2 HOT BELT AREA #7219
16-AUG-94	2.5E-14	4.3E-15	SORTER 1 AREA #1083
17-AUG-94	3.8E-14	6.4E-15	S1,2 HOT BELT AREA #7219
17-AUG-94	4.5E-14	5.8E-15	S1,2 HOT BELT AREA #7219
17-AUG-94	7.0E-14	6.4E-15	WEST PERIMETER #7218
17-AUG-94	1.5E-13	4.3E-15	SORTER 1 AREA #1083
17-AUG-94	1.0E-13	3.2E-15	SORTER 1 AREA #1083
17-AUG-94	8.3E-14	2.9E-15	SORTER 1 AREA #1083
17-AUG-94	3.9E-13	3.0E-15	S1,2 HOT BELT AREA #7219
17-AUG-94	4.9E-14	2.7E-15	S1,2 HOT BELT AREA #7219
19-OCT-94	2.0E-14	3.5E-15	#1083 S-1 AREA
19-OCT-94	2.1E-14	2.1E-15	#1083 S-1 AREA

JOHNSTON ATOLL PLUTONIUM SOIL CLEANUP PROJECT
Air Sampling Results from 1 AUG 94 to 31 OCT 94

Sample Date	Reported Activity $\mu\text{Ci/ml}$	Critical Level $\mu\text{Ci/ml}$	Sample Area Description
19-OCT-94	4.7E-14	3.7E-15	#7219 HOT PART. BELT AREA
20-OCT-94	1.7E-14	5.2E-15	#1083 S-1 AREA
20-OCT-94	2.7E-14	4.7E-15	#7219 HOT PART. BELT AREA
21-OCT-94	3.3E-14	9.6E-15	#1083 S-1 AREA
21-OCT-94	1.4E-14	3.1E-15	#1083 S-1 AREA
21-OCT-94	3.4E-14	4.9E-15	#1083 S-1 AREA
21-OCT-94	5.9E-14	1.0E-14	#7219 HOT PART. BELT AREA
21-OCT-94	2.9E-14	5.8E-15	#7219 HOT PART. BELT AREA
21-OCT-94	2.1E-14	2.9E-15	#7219 HOT PART. BELT AREA
21-OCT-94	< 7.3E-14	7.3E-14	#507993 S2 STAIRS
22-OCT-94	1.8E-14	6.2E-15	#1083 S-1 AREA
22-OCT-94	1.8E-14	5.4E-15	#1083 S-1 AREA
22-OCT-94	2.1E-14	4.1E-15	#1083 S-1 AREA
22-OCT-94	2.8E-14	7.3E-15	#1083 S-1 AREA
22-OCT-94	5.9E-14	5.3E-15	#7219 HOT PART. BELT AREA
24-OCT-94	2.6E-14	1.9E-15	#7219 HOT PART. BELT AREA
24-OCT-94	1.8E-14	1.9E-15	#1083 S-1 AREA
24-OCT-94	2.8E-14	4.2E-15	#1083 S-1 AREA
25-OCT-94	2.5E-14	2.5E-15	#1083 S-1 AREA
25-OCT-94	5.8E-14	1.0E-14	#1083 S-1 AREA
25-OCT-94	3.8E-14	1.6E-14	#1083 S-1 AREA

APPENDIX C

SOIL PRODUCTION DATA

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

DAY	DATE	SORTERS	HOT (ton)	CLEAN (ton)	WR (%)	AP (MBq)	AH (MBq)	AC (MBq)	SA (Bq/kg)	UP (hr)	DN (hr)	RUN (hr)	USE (%)	PRD (%)	VOL (cy)	REC (#)	SORT (sec)	WS3 (ton)
421	01-Aug	S12	15.90	205.93	92.8	359.9	77.9	50.8	247	0.1	0.2	9.5	95	90	176	20,281	8	174
422	02-Aug	S12	0.74	164.72	99.6	24.9	5.3	16.2	98	0.1	0.4	8.1	89	81	131	3,644	111	148
423	03-Aug	S12	2.64	162.31	98.4	60.8	13.0	16.1	99	0.1	0.2	8.6	91	86	131	4,613	56	168
424	04-Aug	S12	6.97	133.76	95.0	97.1	22.1	20.4	153	0.1	0.2	7.1	75	71	112	5,282	26	140
425	05-Aug	S12	8.58	173.98	95.3	148.9	33.1	34.1	196	0.1	0.1	8.3	88	83	145	11,246	10	187
426	06-Aug	S12	0.73	42.40	98.3	14.9	3.2	4.0	93	0.1	0.2	2.0	63	20	34	1,555	24	42
427	08-Aug	S12	4.38	156.08	97.3	48.7	11.7	13.9	89	0.2	0.2	7.9	88	79	127	5,482	30	154
428	09-Aug	S12	1.06	143.31	99.3	31.7	6.8	9.2	64	0.2	0.2	7.5	79	75	114	3,921	61	151
429	10-Aug	S12	11.50	151.27	92.9	112.1	27.8	20.7	136	0.1	0.3	8.4	89	84	129	7,175	21	153
430	11-Aug	S12	8.63	166.13	95.1	181.1	39.9	31.3	188	0.1	0.0	8.5	93	85	139	10,758	11	182
431	12-Aug	S12	11.22	36.61	76.5	47.3	15.7	7.8	213	0.1	0.2	2.5	82	25	38	3,204	11	37
432	13-Aug	S12	53.70	94.44	63.7	191.7	69.5	19.8	210	0.1	0.2	7.8	93	74	117	11,261	10	99
433	15-Aug	S12	8.21	126.77	93.9	55.5	15.6	12.0	95	0.2	0.3	7.1	85	71	107	5,028	29	130
434	16-Aug	S12	75.63	78.71	51.7	319.5	140.2	16.0	203	0.1	0.2	8.0	86	80	121	22,050	5	84
435	17-Aug	S12	58.64	100.01	63.0	210.1	74.2	26.4	266	0.1	0.2	8.3	89	83	126	12,422	9	106
436	18-Aug	S12	134.10	20.56	13.3	813.4	336.6	6.2	301	0.3	0.1	7.7	80	77	123	41,062	2	20
437	19-Aug	S12	77.49	98.66	56.0	400.0	151.5	20.0	202	0.6	0.1	8.8	88	83	140	20,689	6	94
438	20-Aug	S1234	3.28	151.60	97.9	199.5	40.1	13.1	169	0.1	0.2	3.8	83	38	123	5,550	25	129
439	22-Aug	S2	6.39	0.93	12.7	20.1	7.7	0.3	290	0.3	0.0	0.7	70	7	6	866	5	1
440	23-Aug	S12	9.53	33.63	77.9	33.8	11.5	5.3	158	1.0	0.1	2.1	66	21	34	2,442	13	30
441	19-Oct	S12	30.76	105.85	77.5	127.7	43.3	29.8	282	0.2	0.2	6.3	92	60	108	7,241	13	0
442	20-Oct	S1234	24.32	215.05	89.8	69.3	27.8	37.4	221	0.8	0.3	5.5	59	52	190	7,287	55	0
443	21-Oct	S1234	23.68	394.76	94.3	272.2	59.5	90.6	232	0.2	0.2	9.6	96	92	332	16,044	37	170
444	22-Oct	S1234	20.87	309.57	93.7	107.0	34.4	63.7	207	0.3	0.1	7.6	93	72	262	10,246	36	133
445	24-Oct	S1234	40.42	304.34	88.3	202.4	66.8	65.6	212	0.3	1.4	7.9	82	75	273	12,900	36	147
446	25-Oct	S1234	33.84	365.18	91.5	199.7	62.5	72.4	201	0.1	0.1	9.2	96	87	316	14,038	34	152
447	26-Oct	S1234	2.83	151.45	98.2	86.4	14.9	20.8	141	0.1	0.3	3.5	39	34	122	4,856	40	59
448	27-Oct	S1234	47.86	351.22	88.0	156.6	58.9	58.5	182	0.4	0.2	9.2	88	85	316	13,320	76	136
449	28-Oct	S1234	40.99	296.11	87.8	134.3	50.4	60.3	179	0.2	0.2	7.7	83	71	267	11,649	58	146
450	29-Oct	S1234	36.28	239.32	86.8	115.2	43.0	45.1	203	0.2	0.4	6.3	89	60	218	9,721	50	85
451	31-Oct	S1234	68.63	286.16	80.7	145.1	66.5	51.5	210	0.4	0.2	8.1	83	78	281	12,087	56	94
TOTAL			868	5,261		4,987	1,631	939							4,858	317,920		3,352
DAY/WK AVG			28	170	82.2				185	0.2	0.2	6.9	83	67			31	
NUMB DAYS/WKS			31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

DAY	DATE	SORTERS	HOT (ton)	CLEAN (ton)	WR (%)	AP (MBq)	AH (MBq)	AC (MBq)	SA (Bq/kg)	UP (hr)	DN (hr)	RUN (hr)	USE (%)	PRD (%)	VOL (cy)	REC. (#)	SORT (sec)	WS3 (ton)
TOTAL			868	5,261														
GRAND TOTAL				6,129														

JA SOIL CLEANUP PLANT LOG OVERALL SUMMARY REPORT--COMBINED SORTERS

WS1 (ton)	WS2 (ton)	WS4 (ton)	WS5 (ton)	WS6 (ton)	WS7 (ton)	WS8 (ton)	OVR (ton)	H+C (ton)	H+C-WS2,5 (ton)	OVR (%)	AVL (hr)	WEEKLY H+C (ton)	WS2 (ton)	Date
228	197	20	0	0	0	0	31	222	24	13	10			01-Aug
232	159	3	0	0	0	0	73	165	7	32	9			02-Aug
243	193	5	0	0	0	0	49	165	(28)	20	9			03-Aug
202	158	10	0	0	0	0	43	141	(18)	21	7			04-Aug
235	213	14	0	0	0	12	22	183	(31)	9	9			05-Aug
61	46	2	0	0	0	0	15	43	(3)	24	2	918.65	966.76	06-Aug
233	164	7	0	0	0	0	70	160	(3)	30	8			08-Aug
224	158	3	0	0	0	29	65	144	(14)	29	8			09-Aug
222	171	14	0	0	0	12	51	163	(8)	23	9			10-Aug
251	199	14	0	0	0	0	52	175	(24)	21	9			11-Aug
60	53	13	0	0	0	9	8	48	(5)	12	3			12-Aug
226	164	65	0	0	0	0	62	148	(16)	28	8	838.32	908.82	13-Aug
207	148	10	0	0	0	35	59	135	(13)	28	8			15-Aug
246	172	85	0	0	0	0	73	152	(20)	30	8			16-Aug
256	181	70	0	0	0	31	75	159	(23)	29	9			17-Aug
223	179	160	0	0	0	37	44	155	(24)	20	8			18-Aug
257	188	90	0	0	0	32	69	176	(12)	27	9			19-Aug
198	143	3	12	11	0	45	55	155	(0)	28	4	931.66	1023.74	20-Aug
12	8	7	0	0	0	0	3	7	(1)	29	1			22-Aug
60	43	11	0	0	0	10	17	43	(0)	28	3	50.48	51.70	23-Aug
170	140	32	0	0	0	0	30	137	(4)	18	7			19-Oct
82	70	21	205	153	0	0	11	239	(36)	14	7			20-Oct
264	223	261	185	180	0	21	41	418	10	15	10			21-Oct
185	174	22	148	146	0	0	10	330	8	6	8	1124.86	1146.63	22-Oct
256	203	38	132	125	0	0	53	345	10	21	10			24-Oct
265	201	4	183	174	0	2	64	399	16	24	9			25-Oct
94	71	3	73	71	0	0	23	154	10	25	4			26-Oct
327	202	49	169	160	0	26	125	399	28	38	10			27-Oct
351	203	40	114	99	0	31	149	337	21	42	8			28-Oct
223	133	35	119	111	0	24	90	276	24	40	7	1909.84	1801.48	29-Oct
269	167	62	157	141	0	14	103	355	31	38	9			31-Oct
6,362	4,726	1,170	1,497	1,371	0	369	1,636	6,129	(94)		228	6,129	6,223	TOTAL
31	31	31	31	31	31	31	31	31	25		7.4	962	983	DAY/WK AVG
									31	31	31	6	6	NUMB DAYS/WKS

C-4

WORK HISTORY - JA SOIL CLEANUP PLANT

01-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

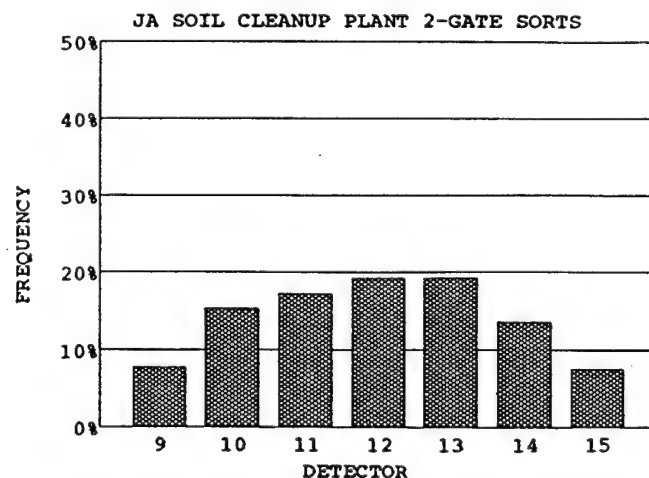
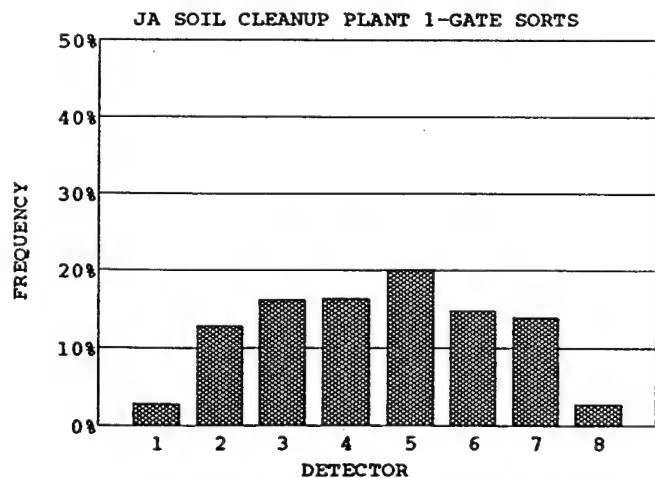
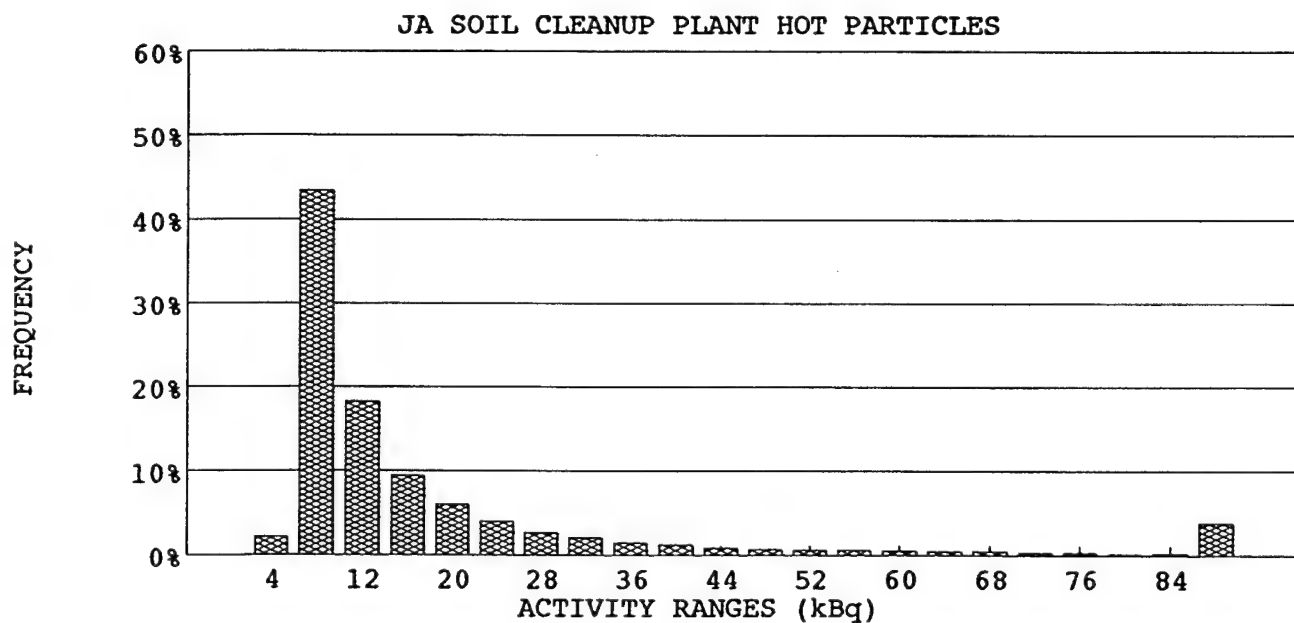
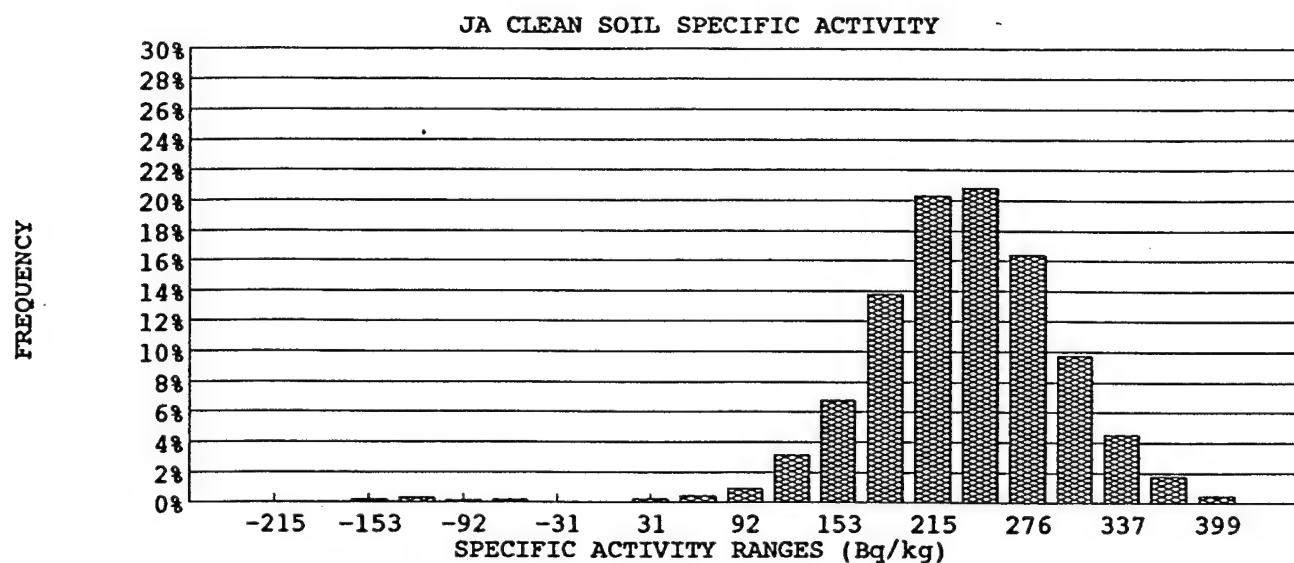
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.9 hr	9.9 hr	0.0 hr	0.0 hr	19.8 hr
SORTER START-UP	06:25	06:25	NA	NA	
START SOIL PROCESSING	06:30	06:30	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:06	16:06	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	9.5 hr	9.4 hr	0.0 hr	0.0 hr	18.9 hr
DOWN-TIME	0.5 hr	0.5 hr	0.0 hr	0.0 hr	0.9 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
SORTER NONAVAILABLE TIME	0.6 hr	0.6 hr	10.0 hr	10.0 hr	21.2 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					95.3%
PRODUCTIVITY					45.0%

PRODUCTIVITY

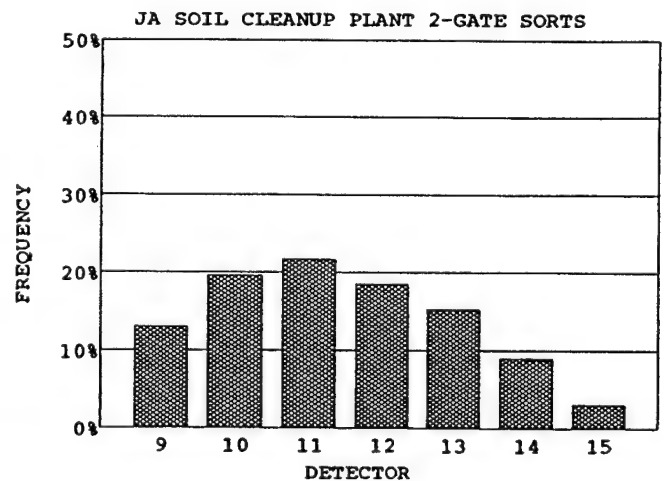
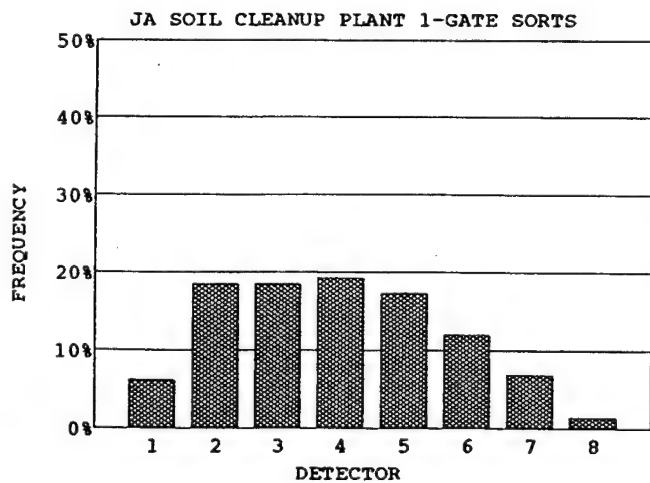
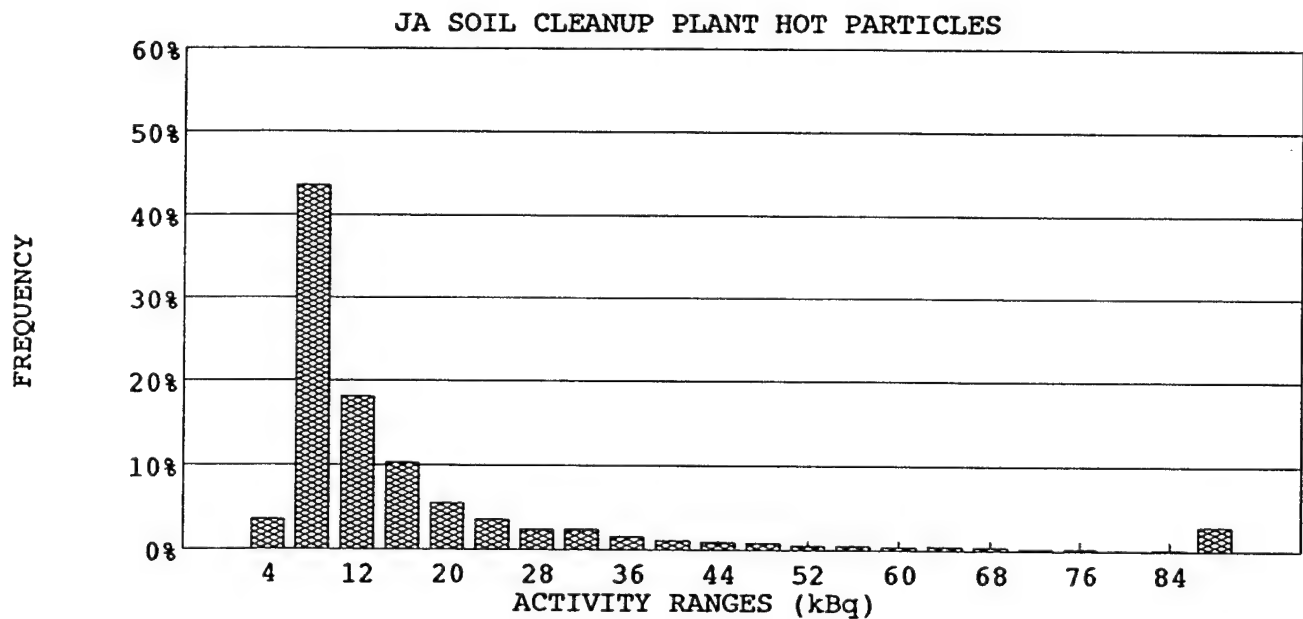
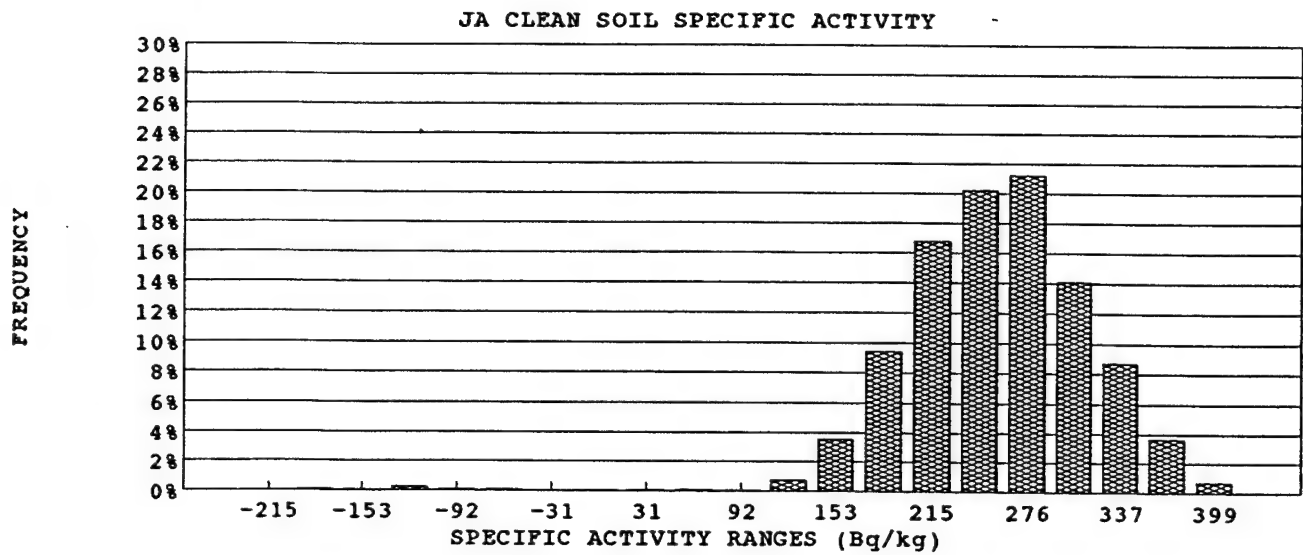
Date	01-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	271	Excused delays for contract (sorter-hrs)	4,830 hr
Current Contract week	46	Excused delay days (plant-days)	121 days
		Excused delay months (plant-month)	4.64 months
Soil production for Day	222 MT		
Cumulative Soil Production for Week	222 MT	Percent of contract completed	54.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,784 MT
Since 6 Sep 93	53,159 MT	Days ahead or behind schedule	5.6 days
Since 6 Aug 93	54,750 MT		
Total Soil production for project	81,037 MT		

MT = metric tons

SORTER 1				01-Aug-94					
SORTER SOIL DENSITY		1.40 tons/m³		BACKGROUND		0.70 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		7.3 tons		103.8 tons		111.0 tons			
MAXIMUM/SORT		65.2 kg		65.2 kg					
MINIMUM/SORT		0.8 kg		49.7 kg					
VOLUME IN-GROUND		5.7 yd³		82.3 yd³		88.0 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.5%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		186,696 kBq		39,673 kBq		24,253 kBq			
MAXIMUM/SORT		2,377 kBq		898 kBq		27 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-11 kBq			
SPECIFIC ACTIVITY				5,471 Bq/kg		234 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,703		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				7		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				426		06:53 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,270					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,030					
2-SEC RECORDS WITH SORTS				8,107					
2-SEC RECORDS WITHOUT SORTS				8,923					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,810					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		5,350	65.99%	5 DET		28	0.35%		
2 DET		2,033	25.08%	6 DET		0	0.00%		
3 DET		573	7.07%	7 DET		1	0.01%		
4 DET		123	1.52%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				8.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	116	2.8%	-14000	0	-215	0.0%	4	173	2.1%
2	526	12.9%	-12000	0	-184	0.0%	8	3,523	43.5%
3	663	16.3%	-10000	3	-153	0.2%	12	1,484	18.3%
4	669	16.4%	-8000	5	-123	0.3%	16	770	9.5%
5	819	20.1%	-6000	2	-92	0.1%	20	485	6.0%
6	602	14.8%	-4000	3	-61	0.2%	24	323	4.0%
7	570	14.0%	-2000	0	-31	0.0%	28	221	2.7%
8	112	2.7%	0	0	0	0.0%	32	168	2.1%
TOTAL	4,077		2000	4	31	0.2%	36	118	1.5%
			4000	7	61	0.4%	40	99	1.2%
			6000	15	92	0.9%	44	70	0.9%
2-GATE SORTS			8000	53	123	3.1%	48	57	0.7%
9	312	7.7%	10000	115	153	6.8%	52	52	0.6%
10	616	15.3%	12000	234	184	13.8%	56	48	0.6%
11	695	17.2%	14000	345	215	20.3%	60	47	0.6%
12	775	19.2%	16000	354	245	20.8%	64	37	0.5%
13	776	19.3%	18000	279	276	16.4%	68	36	0.4%
14	550	13.6%	20000	166	307	9.8%	72	25	0.3%
15	306	7.6%	22000	77	337	4.5%	76	26	0.3%
TOTAL	4,030		24000	30	368	1.8%	80	16	0.2%
			26000	8	399	0.5%	84	17	0.2%
			>28000	1	0	0.1%	>84	312	3.8%
			TOTAL	1,701			TOTAL	8,107	
EVENT TYPES		HPE	7,509	MPE	889	DISE	498		

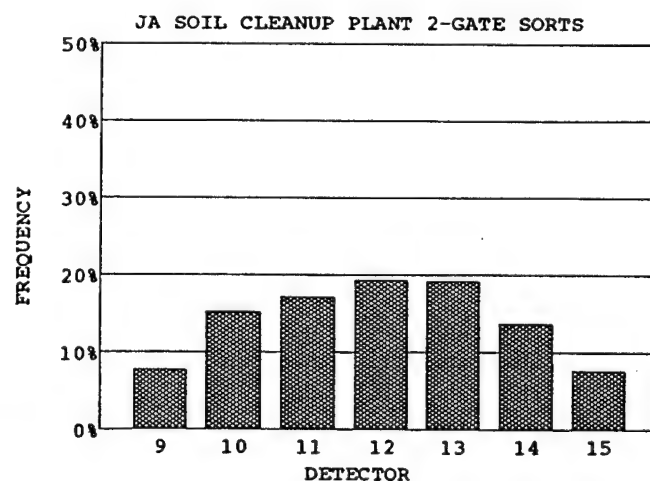
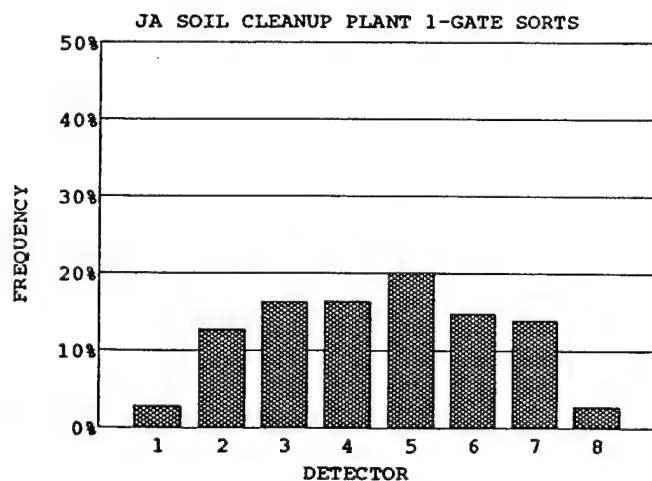
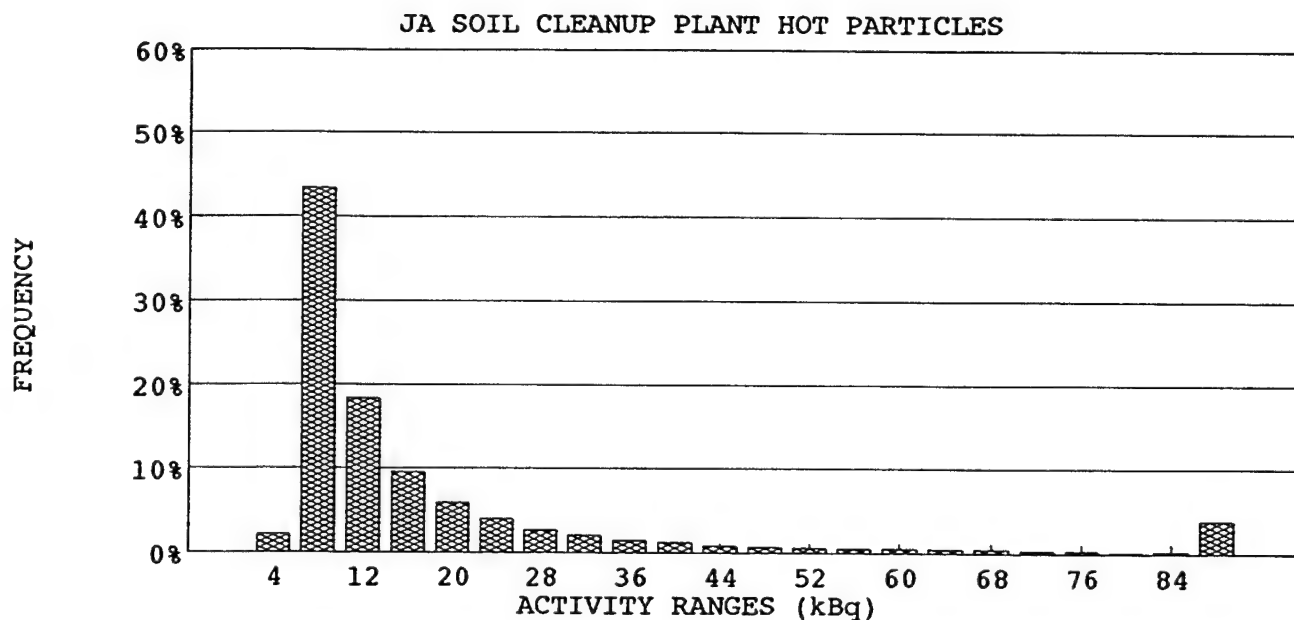
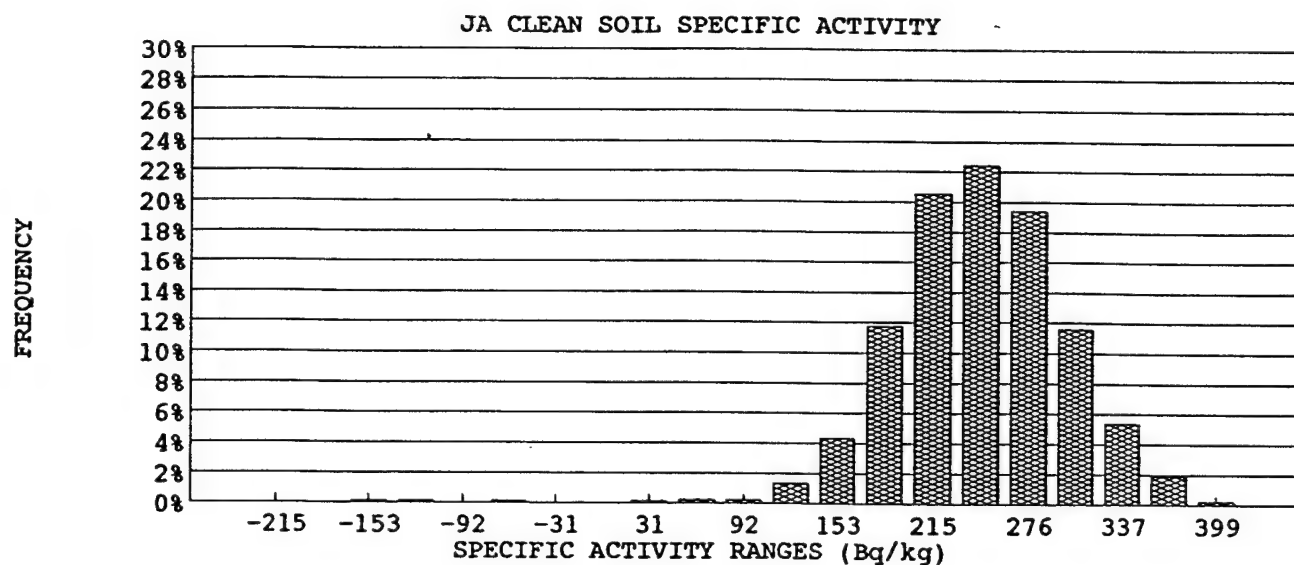


SORTER 2				01-Aug-94					
SORTER SOIL DENSITY		1.40 tons/m ³		BACKGROUND		0.76 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				8.6 tons		102.1 tons		110.8 tons	
MAXIMUM/SORT				65.2 kg		65.2 kg			
MINIMUM/SORT				0.8 kg		48.1 kg			
VOLUME IN-GROUND				6.9 yd ³		81.0 yd ³		87.8 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				92.2%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
TOTAL				173,157 kBq		HOT 38,262 kBq		CLEAN 26,539 kBq	
MAXIMUM/SORT				2,543 kBq		888 kBq		26 kBq	
MINIMUM/SORT				2 kBq		0 Bq		-8 kBq	
SPECIFIC ACTIVITY						4,425 Bq/kg		260 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,699		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				20				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				381				13:32 13:32	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,298				15:24 13:41	
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS						16,990			
2-SEC RECORDS WITH SORTS				8,772					
2-SEC RECORDS WITHOUT SORTS				8,218					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						10,471			
NONPROCESSING RECORDS (Test, calibration, etc)						10			
2-SEC SORT DETECTORS									
1 DET		5,870	66.92%	5 DET		28	0.32%		
2 DET		2,201	25.09%	6 DET		0	0.00%		
3 DET		534	6.09%	7 DET		0	0.00%		
4 DET		139	1.58%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				8.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	269	6.2%	-14000	0	-215	0.0%	4	317	3.6%
2	806	18.5%	-12000	2	-184	0.1%	8	3,824	43.6%
3	808	18.5%	-10000	1	-153	0.1%	12	1,593	18.2%
4	839	19.2%	-8000	5	-123	0.3%	16	906	10.3%
5	755	17.3%	-6000	2	-92	0.1%	20	485	5.5%
6	522	12.0%	-4000	2	-61	0.1%	24	312	3.6%
7	300	6.9%	-2000	0	-31	0.0%	28	212	2.4%
8	63	1.4%	0	1	0	0.1%	32	211	2.4%
TOTAL	4,362		2000	1	31	0.1%	36	136	1.6%
			4000	2	61	0.1%	40	95	1.1%
2-GATE SORTS			6000	1	92	0.1%	44	82	0.9%
DET	SORTS	FREQ%	8000	13	123	0.8%	48	74	0.8%
9	571	12.9%	10000	60	153	3.6%	52	48	0.5%
10	865	19.6%	12000	159	184	9.4%	56	48	0.5%
11	956	21.7%	14000	283	215	16.8%	60	33	0.4%
12	815	18.5%	16000	341	245	20.2%	64	43	0.5%
13	672	15.2%	18000	358	276	21.2%	68	34	0.4%
14	396	9.0%	20000	238	307	14.1%	72	23	0.3%
15	135	3.1%	22000	147	337	8.7%	76	21	0.2%
TOTAL	4,410		24000	61	368	3.6%	80	9	0.1%
			26000	12	399	0.7%	84	15	0.2%
			>28000	0	0	0.0%	>84	251	2.9%
			TOTAL	1,689			TOTAL	8,772	
EVENT TYPES		HPE	8,182	MPE	967	DISE	1,459		



Wet End Feed

SORTER 1				01-Aug-94					
SORTER SOIL DENSITY		1.40 tons/m ³		BACKGROUND		0.71 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		7.1 tons		75.7 tons		82.8 tons			
MAXIMUM/SORT		65.2 kg		65.2 kg					
MINIMUM/SORT		0.8 kg		49.7 kg					
VOLUME IN-GROUND		5.6 yd ³		60.0 yd ³		65.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		91.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		183,565 kBq		39,016 kBq		18,966 kBq			
MAXIMUM/SORT		2,377 kBq		898 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				5,500 Bq/kg		250 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,270		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				6		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				47		06:53 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,217					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,700					
2-SEC RECORDS WITH SORTS				8,005					
2-SEC RECORDS WITHOUT SORTS				4,695					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,275					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		5,275	65.90%	5 DET	26	0.32%			
2 DET		2,011	25.12%	6 DET	0	0.00%			
3 DET		571	7.13%	7 DET	1	0.01%			
4 DET		122	1.52%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				4.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	114	2.8%	-14000	0	-215	0.0%	4	171	2.1%
2	515	12.8%	-12000	0	-184	0.0%	8	3,477	43.4%
3	655	16.3%	-10000	2	-153	0.2%	12	1,469	18.4%
4	660	16.4%	-8000	2	-123	0.2%	16	763	9.5%
5	809	20.1%	-6000	0	-92	0.0%	20	477	6.0%
6	597	14.8%	-4000	2	-61	0.2%	24	318	4.0%
7	562	14.0%	-2000	0	-31	0.0%	28	217	2.7%
8	112	2.8%	0	0	0	0.0%	32	165	2.1%
TOTAL	4,024		2000	2	31	0.2%	36	117	1.5%
			4000	3	61	0.2%	40	99	1.2%
2-GATE SORTS			6000	3	92	0.2%	44	70	0.9%
DET	SORTS	FREQ%	8000	17	123	1.3%	48	57	0.7%
9	308	7.7%	10000	55	153	4.3%	52	52	0.6%
10	607	15.2%	12000	149	184	11.7%	56	47	0.6%
11	685	17.2%	14000	261	215	20.6%	60	44	0.5%
12	769	19.3%	16000	285	245	22.5%	64	36	0.4%
13	765	19.2%	18000	246	276	19.4%	68	36	0.4%
14	544	13.7%	20000	147	307	11.6%	72	24	0.3%
15	303	7.6%	22000	68	337	5.4%	76	26	0.3%
TOTAL	3,981		24000	24	368	1.9%	80	16	0.2%
			26000	3	399	0.2%	84	17	0.2%
			>28000	0	0	0.0%	>84	307	3.8%
			TOTAL	1,269			TOTAL	8,005	
EVENT TYPES		HPE	7,408	MPE	876	DISE	418		

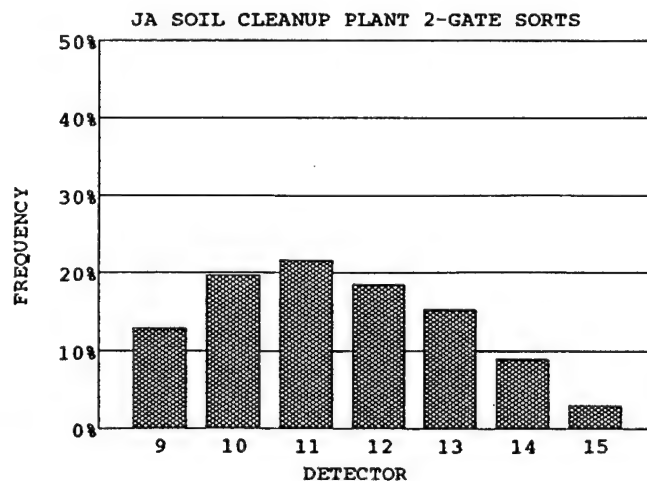
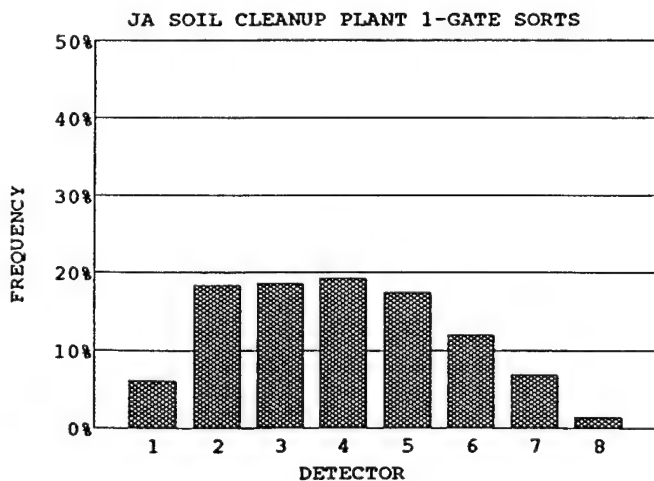
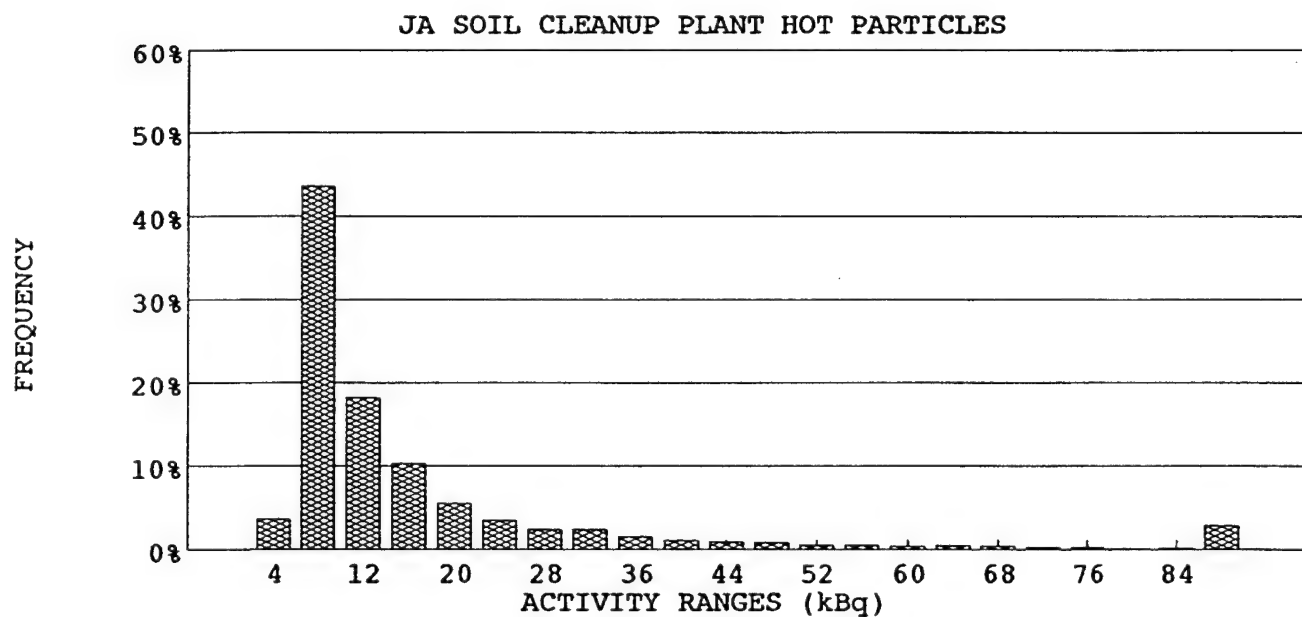
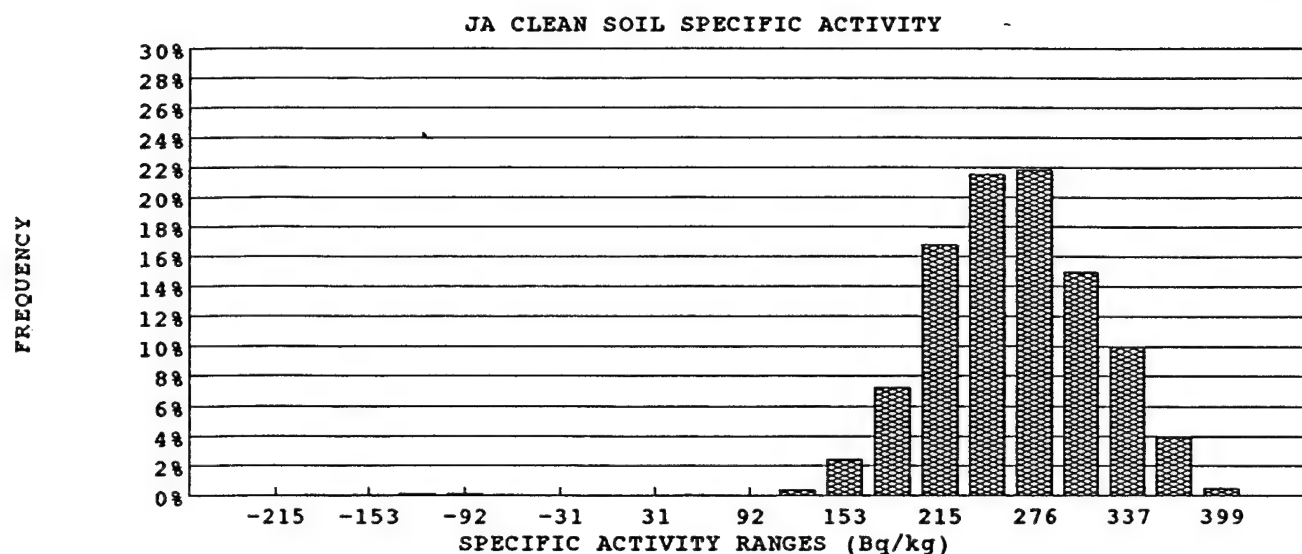


Wet End Feed

SORTER 2				01-Aug-94					
SORTER SOIL DENSITY		1.40 tons/m ³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		8.3 tons		74.5 tons		82.7 tons			
MAXIMUM/SORT		65.2 kg		65.2 kg					
MINIMUM/SORT		0.8 kg		48.1 kg					
VOLUME IN-GROUND		6.6 yd ³		59.0 yd ³		65.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		90.0%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		170,301 kBq		37,512 kBq		20,234 kBq			
MAXIMUM/SORT		2,543 kBq		888 kBq		26 kBq			
MINIMUM/SORT		2 kBq		0 Bq		0 kBq			
SPECIFIC ACTIVITY				4,534 Bq/kg		272 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,269		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				16		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				27		13:32 13:32			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,226					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,690					
2-SEC RECORDS WITH SORTS				8,651					
2-SEC RECORDS WITHOUT SORTS				4,039					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,920					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		5,780	66.81%	5 DET		28	0.32%		
2 DET		2,179	25.19%	6 DET		0	0.00%		
3 DET		527	6.09%	7 DET		0	0.00%		
4 DET		137	1.58%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				4.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	262	6.1%	-14000	0	-215	0.0%	4	316	3.7%
2	790	18.4%	-12000	1	-184	0.1%	8	3,771	43.6%
3	800	18.6%	-10000	1	-153	0.1%	12	1,574	18.2%
4	827	19.2%	-8000	2	-123	0.2%	16	892	10.3%
5	747	17.4%	-6000	2	-92	0.2%	20	475	5.5%
6	514	12.0%	-4000	1	-61	0.1%	24	306	3.5%
7	295	6.9%	-2000	0	-31	0.0%	28	212	2.5%
8	63	1.5%	0	0	0	0.0%	32	206	2.4%
TOTAL	4,298		2000	0	31	0.0%	36	133	1.5%
2-GATE SORTS			4000	1	61	0.1%	40	94	1.1%
			6000	0	92	0.0%	44	81	0.9%
DET	SORTS	FREQ%	8000	5	123	0.4%	48	73	0.8%
9	562	12.9%	10000	31	153	2.5%	52	48	0.6%
10	855	19.6%	12000	91	184	7.2%	56	48	0.6%
11	942	21.6%	14000	211	215	16.7%	60	33	0.4%
12	807	18.5%	16000	271	245	21.5%	64	42	0.5%
13	665	15.3%	18000	275	276	21.8%	68	34	0.4%
14	390	9.0%	20000	188	307	14.9%	72	23	0.3%
15	132	3.0%	22000	125	337	9.9%	76	20	0.2%
TOTAL	4,353		24000	49	368	3.9%	80	9	0.1%
			26000	6	399	0.5%	84	14	0.2%
			>28000	0	0	0.0%	>84	247	2.9%
			TOTAL	1,260			TOTAL	8,651	
EVENT TYPES		HPE	8,058	MPE	948	DISE	1,141		

SORTER 2

Wet End Feed
01-Aug-94



WORK HISTORY - JA SOIL CLEANUP PLANT

02-Aug-94

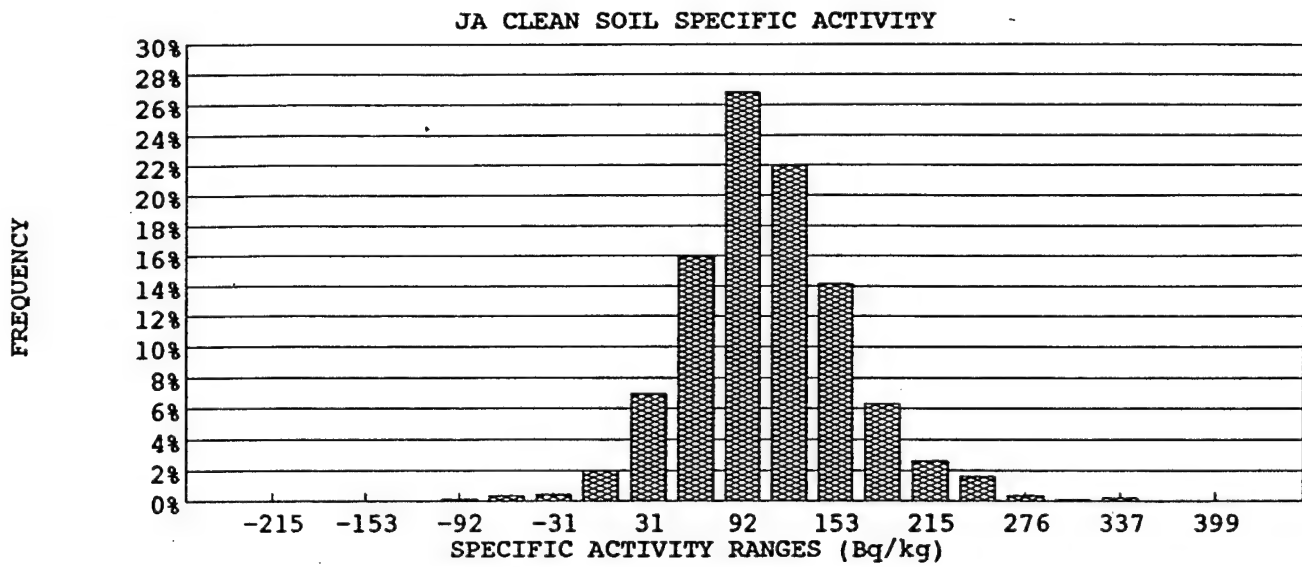
WORK DAY START	06:00 AM	WORK DAY END	16:30 PM		
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR		
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.1 hr	9.1 hr	0.0 hr	0.0 hr	18.1 hr
SORTER START-UP	06:11	06:11	NA	NA	
START SOIL PROCESSING	06:16	06:15	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	15:45	15:45	NA	NA	
END SOIL PROCESSING	15:23	15:24	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
ACTUAL PROCESS HOURS	8.1 hr	8.1 hr	0.0 hr	0.0 hr	16.1 hr
DOWN-TIME	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.0 hr
SYSTEM PAUSE	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.2 hr
SORTER NONAVAILABLE TIME	0.9 hr	0.9 hr	10.0 hr	10.0 hr	21.9 hr
AUTHORIZED DELAY TIME	0.7 hr	0.7 hr	10.0 hr	10.0 hr	21.4 hr
PLANT PERFORMANCE					89.0%
PRODUCTIVITY					40.3%

PRODUCTIVITY

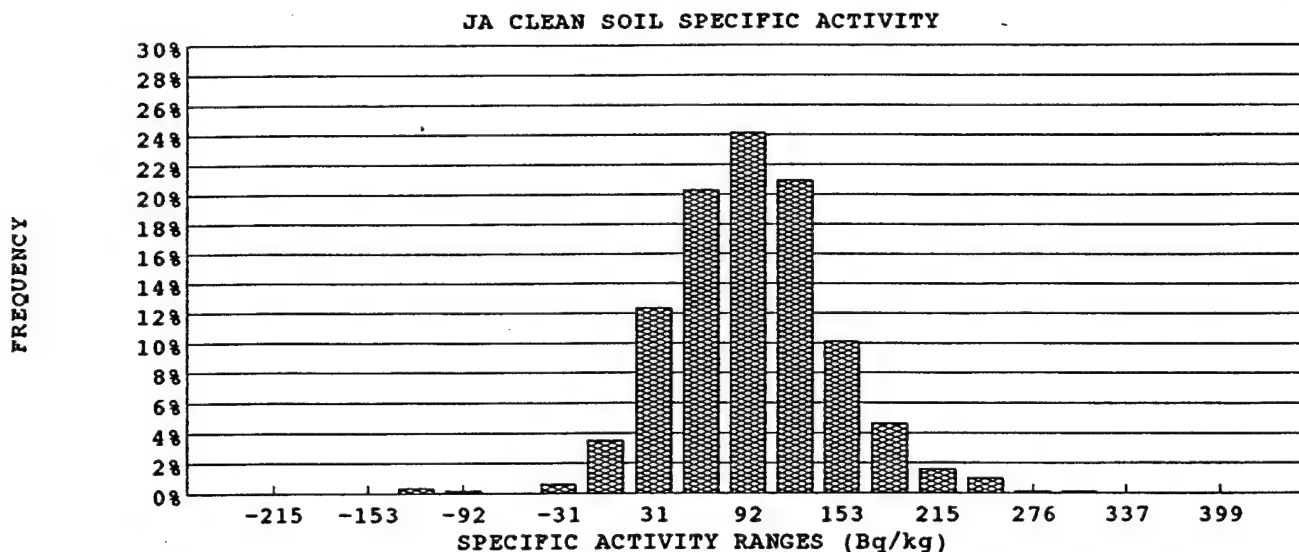
Date	02-Aug-94	Excused Delays for day (sorter-hrs)	21.4 hr
Contract day (from 6 Sep)	272	Excused delays for contract (sorter-hrs)	4,852 hr
Current Contract week	46	Excused delay days (plant-days)	121 days
		Excused delay months (plant-month)	4.67 months
Soil production for Day	165 MT		
Cumulative Soil Production for Week	387 MT	Percent of contract completed	54.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,802 MT
Since 6 Sep 93	53,324 MT	Days ahead or behind schedule	5.7 days
Since 6 Aug 93	54,915 MT		
Total Soil production for project	81,202 MT		

MT = metric tons

SORTER 1				02-Aug-94											
SORTER SOIL DENSITY		1.15 tons/m³		BACKGROUND		0.67 ± 0.02 c/s									
SOIL		CONTAMINATED		CLEAN		TOTAL									
MASS TOTAL		0.4 tons		82.4 tons		82.8 tons									
MAXIMUM/SORT		55.7 kg		65.2 kg											
MINIMUM/SORT		0.7 kg		48.2 kg											
VOLUME IN-GROUND		0.3 yd³		65.3 yd³		65.6 yd³									
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.5%													
ACTIVITY				DISPERSED + PARTICLE											
		PARTICLE		HOT		CLEAN									
TOTAL		18,420 kBq		3,917 kBq		8,763 kBq									
MAXIMUM/SORT		2,469 kBq		998 kBq		22 kBq									
MINIMUM/SORT		4 kBq		0 Bq		-7 kBq									
SPECIFIC ACTIVITY				10,395 Bq/kg		106 Bq/kg									
SORTS															
20-SEC PROCESS PERIODS				1,453		UNEXP PAUSE									
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME TIME									
NONE (AD=0 & MD=0 & MND>0)				1,236		07:46 08:36									
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				216		08:41 10:53									
UNEXPLAINED RECORDS				0		09:24									
0<AD<1kBq & MD>0				4		12:20									
AD=0 & MD>0				1		13:51									
AD<0 & MD >0				0											
2-SEC COUNT PERIODS				14,530											
2-SEC RECORDS WITH SORTS				382											
2-SEC RECORDS WITHOUT SORTS				14,148											
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,835											
NONPROCESSING RECORDS (Test, calibration, etc)				3											
2-SEC SORT DETECTORS															
1 DET		264	69.11%	5 DET		0	0.00%								
2 DET		88	23.04%	6 DET		0	0.00%								
3 DET		25	6.54%	7 DET		0	0.00%								
4 DET		5	1.31%	8 DET		0	0.00%								
AVERAGE TIME BETWEEN 2-SEC SORTS				110.1 sec											
FREQUENCY DISTRIBUTIONS															
1-GATE SORTS		ACT_ND		NUM		SPEC_A		FREQ%		ACT_P		NUM		FREQ%	
DET SORTS		FREQ%		(Bq)		(#)		(Bq/kg)		FREQ%		(kBq)		FREQ%	
1 6		3.2%		-14000		0		-215		0.0%		4		2 0.5%	
2 27		14.3%		-12000		0		-184		0.0%		8		168 44.0%	
3 37		19.6%		-10000		0		-153		0.0%		12		67 17.5%	
4 31		16.4%		-8000		0		-123		0.0%		16		25 6.5%	
5 35		18.5%		-6000		2		-92		0.1%		20		22 5.8%	
6 27		14.3%		-4000		5		-61		0.3%		24		16 4.2%	
7 22		11.6%		-2000		6		-31		0.4%		28		13 3.4%	
8 4		2.1%		0		29		0		2.0%		32		12 3.1%	
TOTAL 189				2000		101		31		6.9%		36		6 1.6%	
				4000		233		61		16.0%		40		3 0.8%	
2-GATE SORTS				6000		391		92		26.9%		44		4 1.0%	
DET SORTS		FREQ%		8000		320		123		22.0%		48		3 0.8%	
9 19		9.8%		10000		206		153		14.2%		52		2 0.5%	
10 25		13.0%		12000		92		184		6.3%		56		2 0.5%	
11 32		16.6%		14000		38		215		2.6%		60		0 0.0%	
12 30		15.5%		16000		23		245		1.6%		64		5 1.3%	
13 39		20.2%		18000		5		276		0.3%		68		1 0.3%	
14 30		15.5%		20000		1		307		0.1%		72		2 0.5%	
15 18		9.3%		22000		3		337		0.2%		76		1 0.3%	
TOTAL 193				24000		0		368		0.0%		80		2 0.5%	
				26000		0		399		0.0%		84		1 0.3%	
				>28000		0		0		0.0%		>84		25 6.5%	
				TOTAL		1,455						TOTAL		382	
EVENT TYPES		HPE		383		MPE		82		DISE		83			



SORTER 2				02-Aug-94					
SORTER SOIL DENSITY			1.15 tons/m ³	BACKGROUND		0.72 ±	0.02 c/s		
SOIL				CONTAMINATED	CLEAN	TOTAL			
MASS TOTAL				0.4 tons	82.3 tons	82.7 tons			
MAXIMUM/SORT				55.7 kg	65.2 kg				
MINIMUM/SORT				0.7 kg	48.9 kg				
VOLUME IN-GROUND				0.3 yd ³	65.3 yd ³	65.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.6%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				6,443 kBq	1,410 kBq	7,455 kBq			
MAXIMUM/SORT				267 kBq	105 kBq	19 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-10 kBq			
SPECIFIC ACTIVITY					3,863 Bq/kg	91 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS					1,452	UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)					1	TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)					1,238	08:25	08:35		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)					214	09:36	10:51		
UNEXPLAINED RECORDS (1)						15:02			
0<AD<1kBq & MD>0					5	15:14			
AD=0 & MD>0					0	15:16			
AD<0 & MD >0					0				
2-SEC COUNT PERIODS					14,520				
2-SEC RECORDS WITH SORTS					357				
2-SEC RECORDS WITHOUT SORTS					14,163				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)					1,809				
NONPROCESSING RECORDS (Test, calibration, etc)					1				
2-SEC SORT DETECTORS									
1 DET		258	72.27%	5 DET	0	0.00%			
2 DET		80	22.41%	6 DET	0	0.00%			
3 DET		17	4.76%	7 DET	0	0.00%			
4 DET		2	0.56%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS					112.6 sec				
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	15	8.9%	-14000	0	-215	0.0%	4	8	2.2%
2	30	17.9%	-12000	0	-184	0.0%	8	164	45.9%
3	30	17.9%	-10000	0	-153	0.0%	12	53	14.8%
4	34	20.2%	-8000	5	-123	0.3%	16	44	12.3%
5	32	19.0%	-6000	3	-92	0.2%	20	23	6.4%
6	19	11.3%	-4000	0	-61	0.0%	24	15	4.2%
7	5	3.0%	-2000	9	-31	0.6%	28	4	1.1%
8	3	1.8%	0	51	0	3.5%	32	5	1.4%
TOTAL	168		2000	179	31	12.3%	36	4	1.1%
			4000	295	61	20.3%	40	3	0.8%
2-GATE SORTS			6000	350	92	24.1%	44	4	1.1%
DET	SORTS	FREQ%	8000	304	123	20.9%	48	3	0.8%
9	30	15.9%	10000	147	153	10.1%	52	3	0.8%
10	34	18.0%	12000	67	184	4.6%	56	2	0.6%
11	42	22.2%	14000	23	215	1.6%	60	3	0.8%
12	41	21.7%	16000	15	245	1.0%	64	5	1.4%
13	27	14.3%	18000	2	276	0.1%	68	2	0.6%
14	10	5.3%	20000	2	307	0.1%	72	0	0.0%
15	5	2.6%	22000	0	337	0.0%	76	0	0.0%
TOTAL	189		24000	0	368	0.0%	80	0	0.0%
			26000	0	399	0.0%	84	1	0.3%
			>28000	0	0	0.0%	>84	11	3.1%
			TOTAL	1,452			TOTAL	357	
EVENT TYPES		HPE	376	MPE	68	DISE	83		



WORK HISTORY -- JA SOIL CLEANUP PLANT

03-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

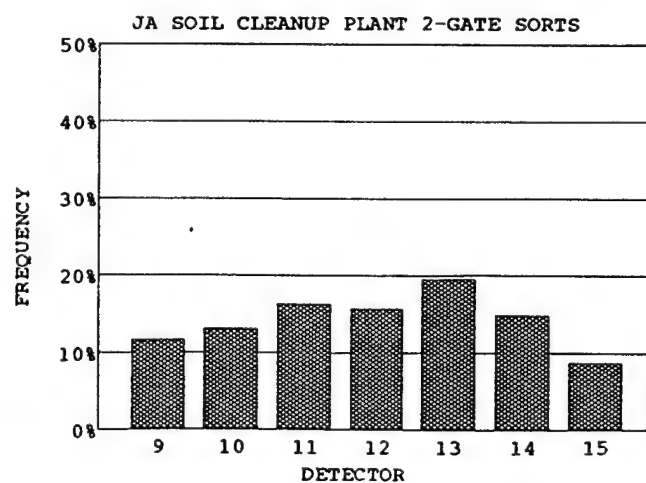
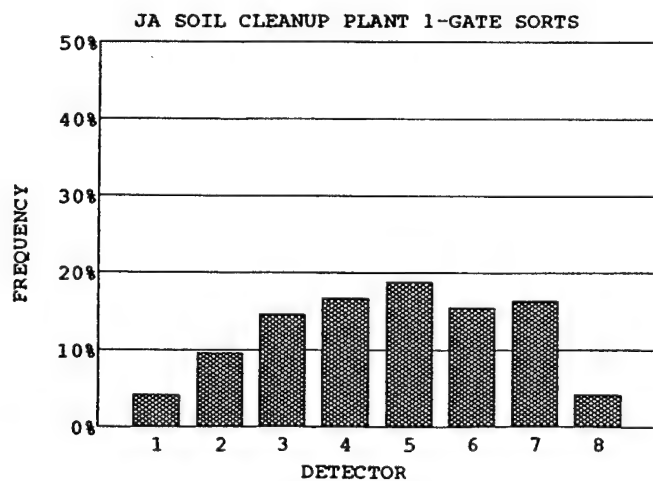
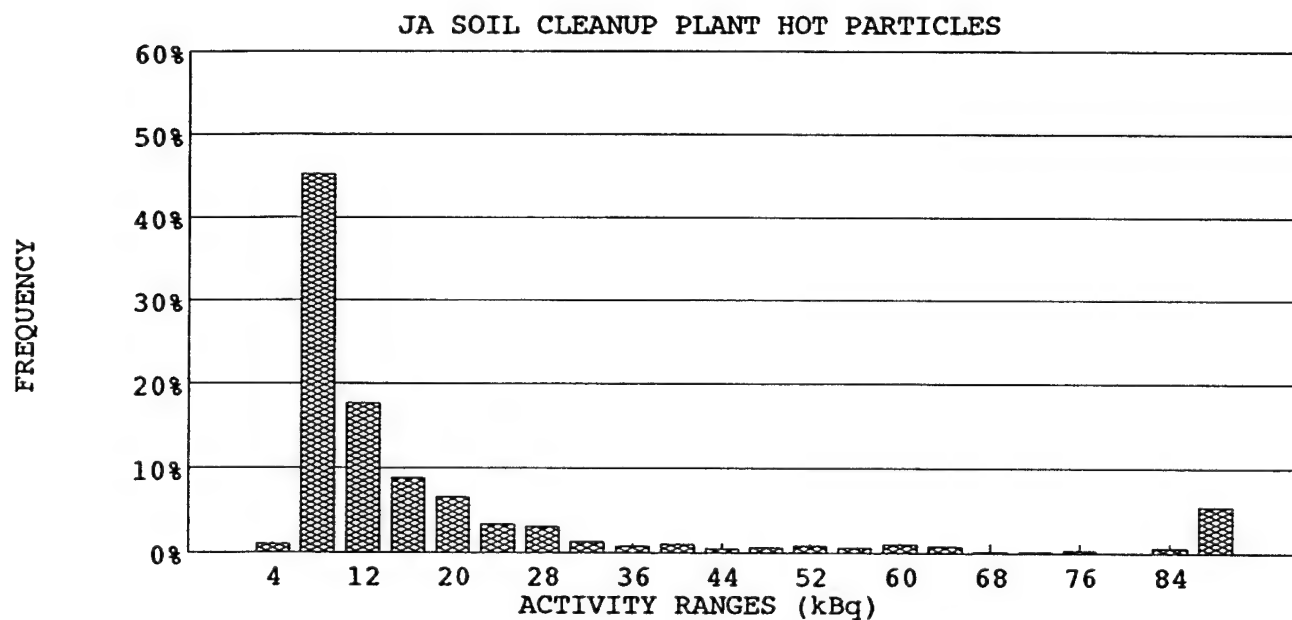
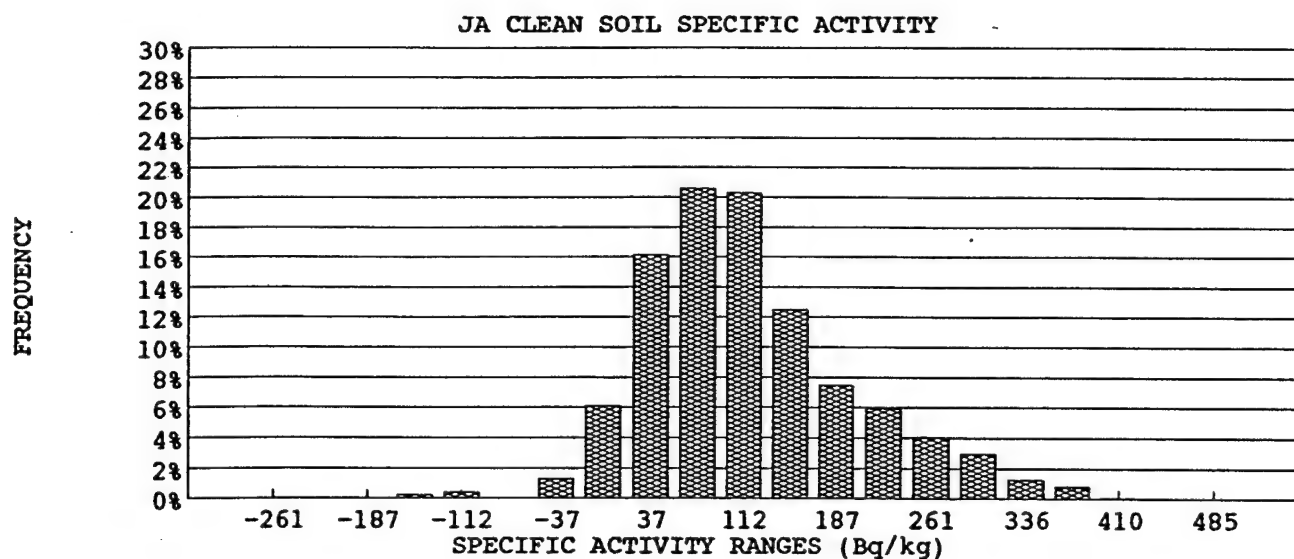
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.4 hr	9.4 hr	0.0 hr	0.0 hr	18.7 hr
SORTER START-UP	06:33	06:33	NA	NA	
START SOIL PROCESSING	06:37	06:37	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:24	16:24	NA	NA	
END SOIL PROCESSING	16:08	16:09	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.5 hr	8.6 hr	0.0 hr	0.0 hr	17.1 hr
DOWN-TIME	0.8 hr	0.8 hr	0.0 hr	0.0 hr	1.6 hr
SYSTEM PAUSE	1.0 hr	1.0 hr	0.0 hr	0.0 hr	1.9 hr
SORTER NONAVAILABLE TIME	0.6 hr	0.6 hr	10.0 hr	10.0 hr	21.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					91.4%
PRODUCTIVITY					42.8%

PRODUCTIVITY

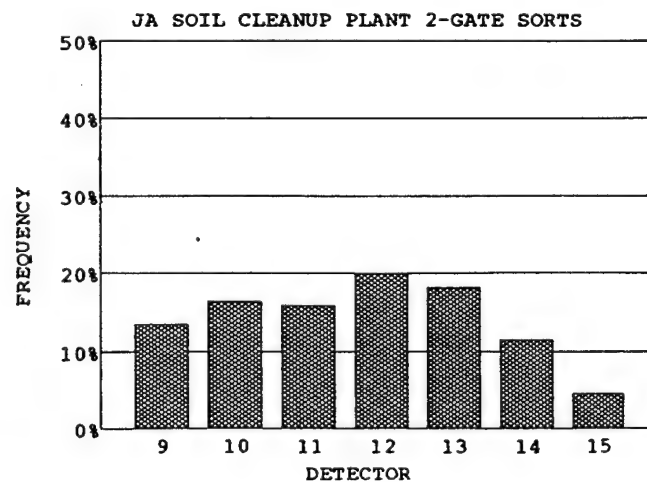
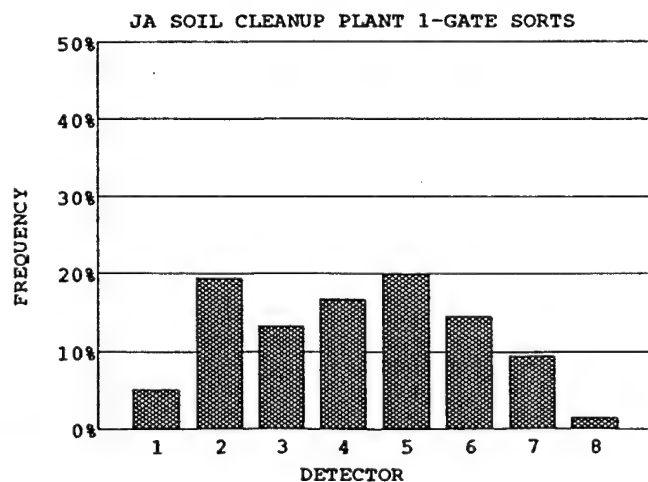
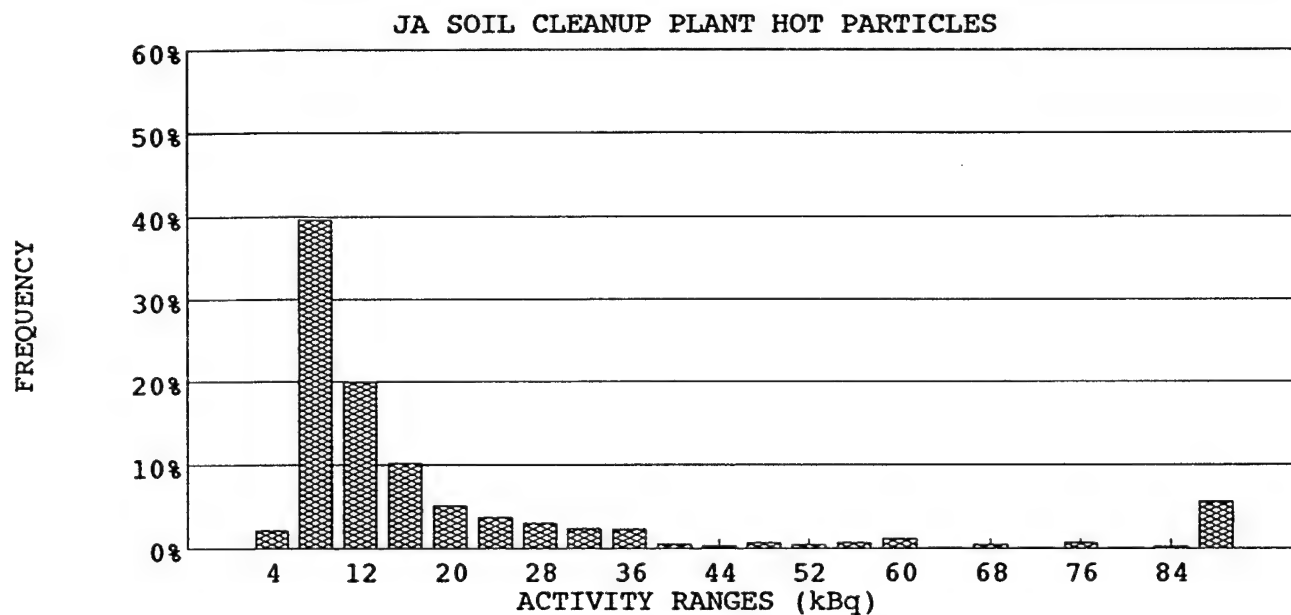
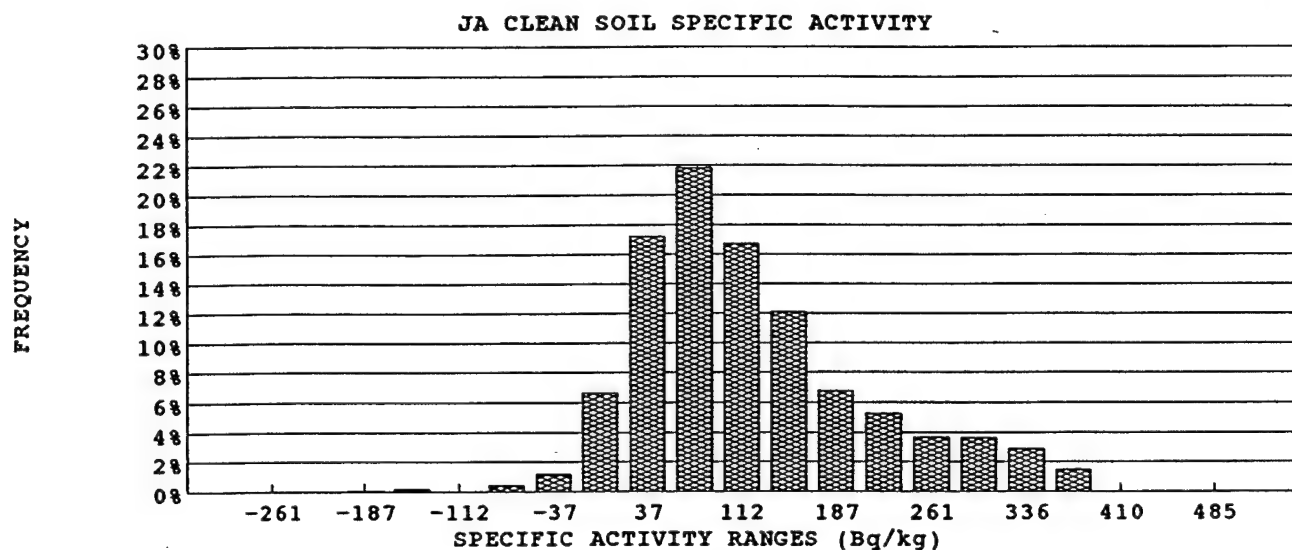
Date	03-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	273	Excused delays for contract (sorter-hrs)	4,872 hr
Current Contract week	46	Excused delay days (plant-days)	122 days
		Excused delay months (plant-month)	4.68 months
Soil production for Day	165 MT		
Cumulative Soil Production for Week	552 MT	Percent of contract completed	55.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,808 MT
Since 6 Sep 93	53,489 MT	Days ahead or behind schedule	5.7 days
Since 6 Aug 93	55,080 MT		
Total Soil production for project	81,367 MT		

MT = metric tons

SORTER 1				03-Aug-94					
SORTER SOIL DENSITY			1.15 tons/m³	BACKGROUND		0.69 ±	0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.9 tons		81.5 tons		82.4 tons			
MAXIMUM/SORT		53.6 kg		53.6 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		0.7 yd³		64.6 yd³		65.3 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.9%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		16,840 kBq		3,787 kBq		7,995 kBq			
MAXIMUM/SORT		972 kBq		394 kBq		20 kBq			
MINIMUM/SORT		4 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				4,311 Bq/kg		98 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,538		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				6		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,178		07:15 10:54			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				354		08:32			
UNEXPLAINED RECORDS				0		09:09			
0<AD<1kBq & MD>0				5		10:44			
AD=0 & MD>0				0		13:38			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				15,380					
2-SEC RECORDS WITH SORTS				678					
2-SEC RECORDS WITHOUT SORTS				14,702					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,216					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		491	72.42%	5 DET	1	0.15%			
2 DET		148	21.83%	6 DET	0	0.00%			
3 DET		30	4.42%	7 DET	0	0.00%			
4 DET		8	1.18%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				62.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	14	4.2%	-14000	0	-261	0.0%	4	7	1.0%
2	32	9.6%	-12000	0	-224	0.0%	8	307	45.3%
3	49	14.6%	-10000	0	-187	0.0%	12	120	17.7%
4	56	16.7%	-8000	3	-149	0.2%	16	60	8.8%
5	63	18.8%	-6000	6	-112	0.4%	20	45	6.6%
6	52	15.5%	-4000	0	-75	0.0%	24	23	3.4%
7	55	16.4%	-2000	20	-37	1.3%	28	21	3.1%
8	14	4.2%	0	94	0	6.1%	32	9	1.3%
TOTAL	335		2000	248	37	16.1%	36	5	0.7%
			4000	317	75	20.6%	40	7	1.0%
			6000	312	112	20.3%	44	3	0.4%
2-GATE SORTS			8000	192	149	12.5%	48	4	0.6%
DET	SORTS	FREQ%	10000	115	187	7.5%	52	6	0.9%
9	40	11.7%	12000	91	224	5.9%	56	4	0.6%
10	45	13.1%	14000	62	261	4.0%	60	7	1.0%
11	56	16.3%	16000	46	299	3.0%	64	5	0.7%
12	54	15.7%	18000	19	336	1.2%	68	1	0.1%
13	67	19.5%	20000	13	373	0.8%	72	1	0.1%
14	51	14.9%	22000	1	410	0.1%	76	2	0.3%
15	30	8.7%	24000	0	448	0.0%	80	0	0.0%
TOTAL	343		26000	0	485	0.0%	84	4	0.6%
			>28000	0	0	0.0%	>84	37	5.5%
			TOTAL	1,539			TOTAL	678	
EVENT TYPES			HPE	692	MPE	153	DISE	472	



SORTER 2				03-Aug-94					
SORTER SOIL DENSITY			1.15 tons/m³	BACKGROUND		0.74 ±	0.02 c/s		
SOIL			CONTAMINATED		CLEAN	TOTAL			
MASS TOTAL			1.8 tons		80.8 tons	82.5 tons			
MAXIMUM/SORT			53.6 kg		53.6 kg				
MINIMUM/SORT			0.7 kg		45.5 kg				
VOLUME IN-GROUND			1.4 yd³		64.0 yd³	65.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			97.9%						
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				43,969 kBq	9,236 kBq	8,152 kBq			
MAXIMUM/SORT				4,220 kBq	1,689 kBq	20 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-6 kBq			
SPECIFIC ACTIVITY					5,256 Bq/kg	101 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,540		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				20		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,134		08:00	10:54		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				386		08:48			
UNEXPLAINED RECORDS				0		10:25			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				15,400					
2-SEC RECORDS WITH SORTS				857					
2-SEC RECORDS WITHOUT SORTS				14,543					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,397					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		624	72.81%	5 DET		3	0.35%		
2 DET		182	21.24%	6 DET		0	0.00%		
3 DET		38	4.43%	7 DET		0	0.00%		
4 DET		10	1.17%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				49.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	21	5.1%	-14000	0	-261	0.0%	4	19	2.2%
2	80	19.4%	-12000	0	-224	0.0%	8	339	39.6%
3	55	13.3%	-10000	1	-187	0.1%	12	171	20.0%
4	69	16.7%	-8000	3	-149	0.2%	16	88	10.3%
5	82	19.9%	-6000	0	-112	0.0%	20	44	5.1%
6	60	14.6%	-4000	7	-75	0.5%	24	32	3.7%
7	39	9.5%	-2000	18	-37	1.2%	28	26	3.0%
8	6	1.5%	0	101	0	6.6%	32	21	2.5%
TOTAL	412		2000	262	37	17.2%	36	20	2.3%
2-GATE SORTS			4000	333	75	21.8%	40	5	0.6%
DET	SORTS	FREQ%	6000	255	112	16.7%	44	3	0.4%
9	60	13.5%	8000	184	149	12.1%	48	6	0.7%
10	73	16.4%	10000	103	187	6.8%	52	4	0.5%
11	71	16.0%	12000	80	224	5.2%	56	6	0.7%
12	89	20.0%	14000	56	261	3.7%	60	10	1.2%
13	81	18.2%	16000	55	299	3.6%	64	1	0.1%
14	51	11.5%	18000	44	336	2.9%	68	4	0.5%
15	20	4.5%	20000	23	373	1.5%	72	1	0.1%
TOTAL	445		22000	0	410	0.0%	76	6	0.7%
			24000	0	448	0.0%	80	1	0.1%
			26000	0	485	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	48	5.6%
TOTAL				1,525			TOTAL	857	
EVENT TYPES		HPE	889	MPE	197	DISE	1,544		



WORK HISTORY - JA SOIL CLEANUP PLANT

04-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

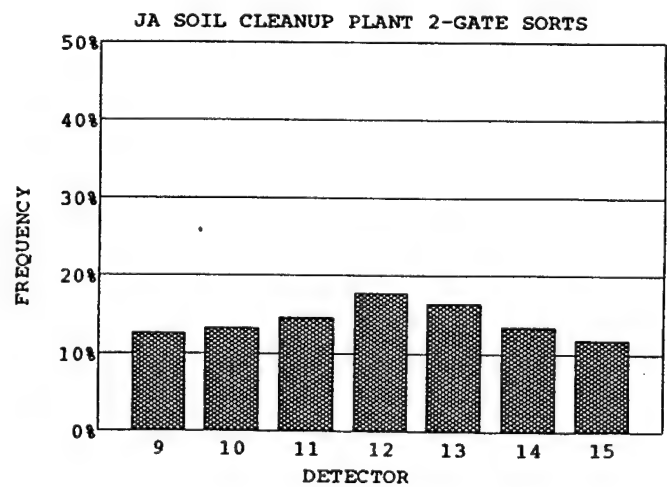
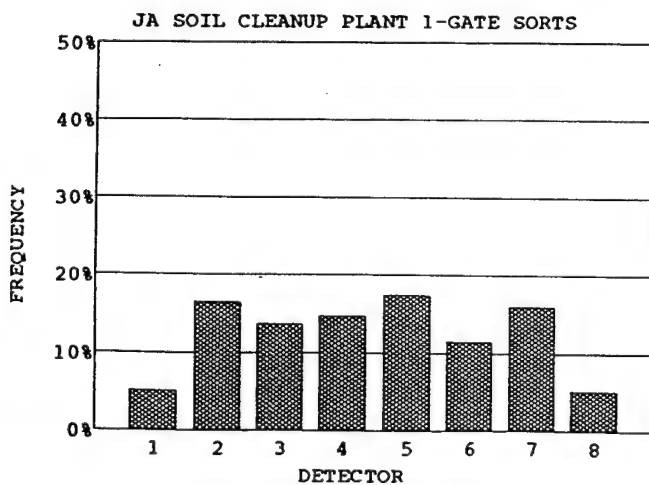
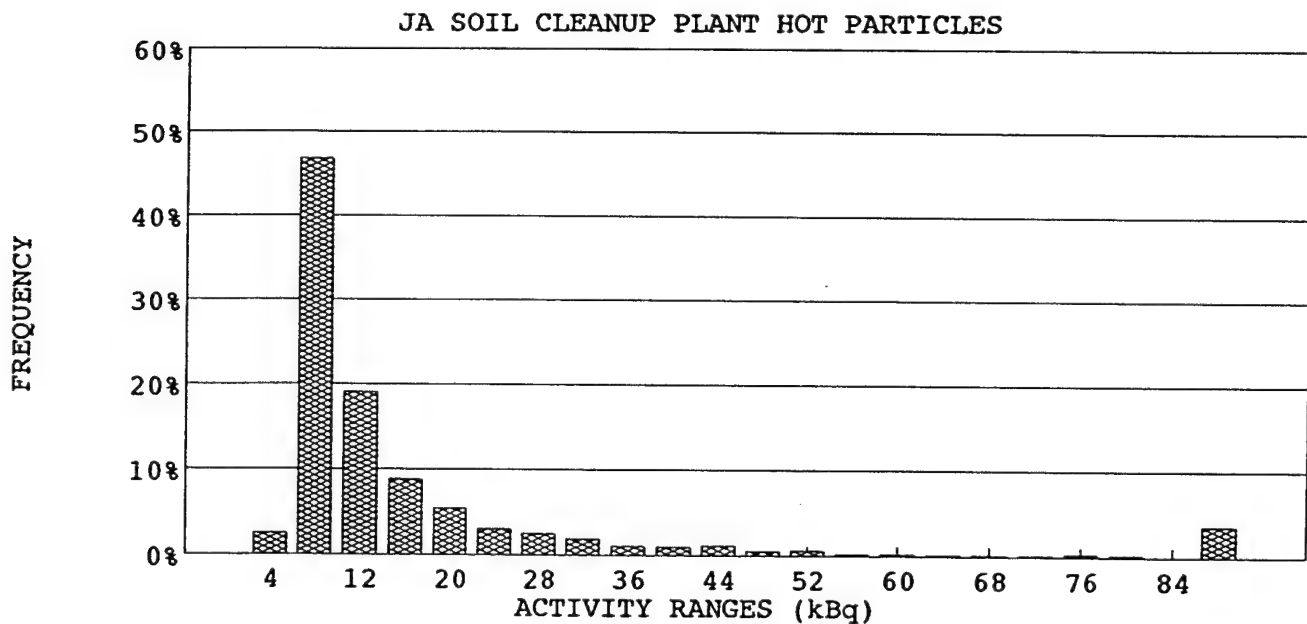
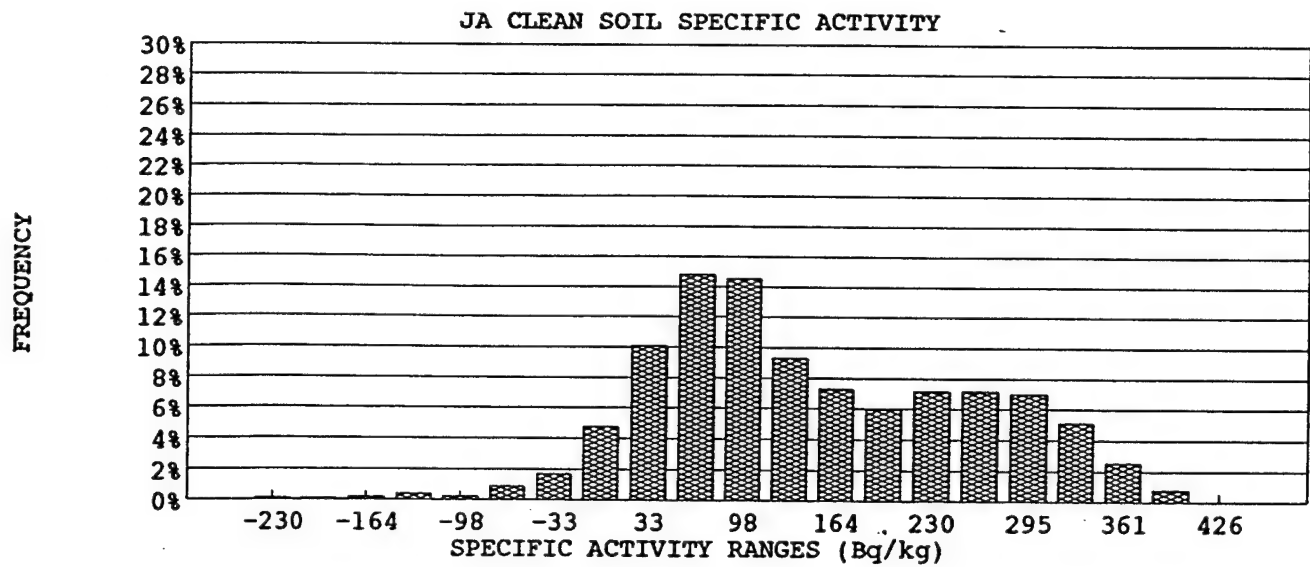
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.4 hr	9.4 hr	0.0 hr	0.0 hr	18.8 hr
SORTER START-UP	06:32	06:32	NA	NA	
START SOIL PROCESSING	06:39	06:39	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:14	16:11	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	7.1 hr	7.0 hr	0.0 hr	0.0 hr	14.1 hr
DOWN-TIME	2.3 hr	2.4 hr	0.0 hr	0.0 hr	4.7 hr
SYSTEM PAUSE	2.5 hr	2.5 hr	0.0 hr	0.0 hr	5.0 hr
SORTER NONAVAILABLE TIME	0.6 hr	0.6 hr	10.0 hr	10.0 hr	21.2 hr
AUTHORIZED DELAY TIME	2.0 hr	2.0 hr	10.0 hr	10.0 hr	24.0 hr
PLANT PERFORMANCE					75.1%
PRODUCTIVITY					35.3%

PRODUCTIVITY

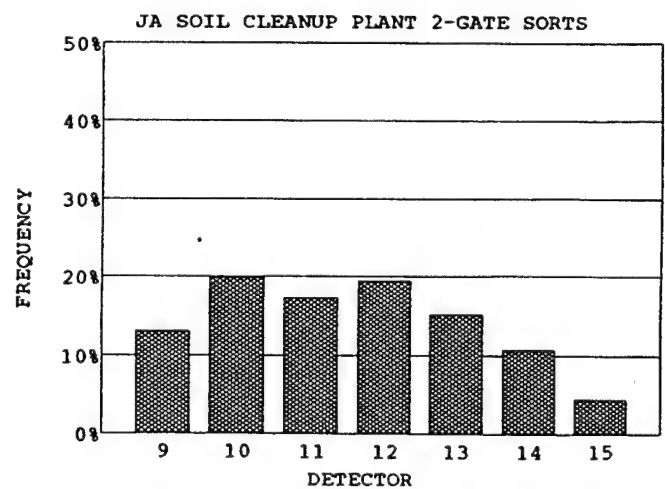
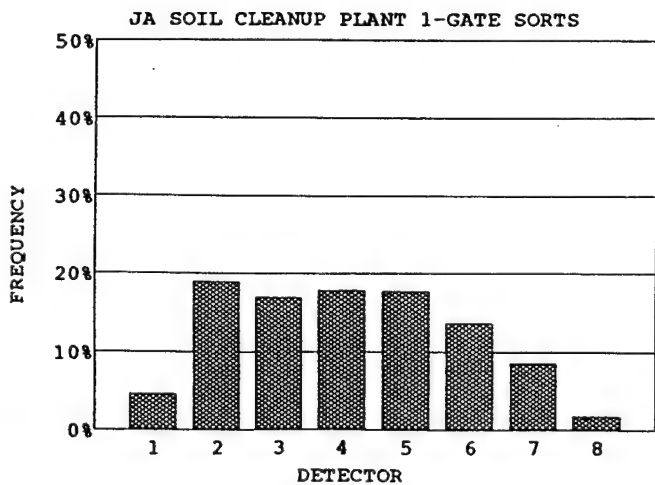
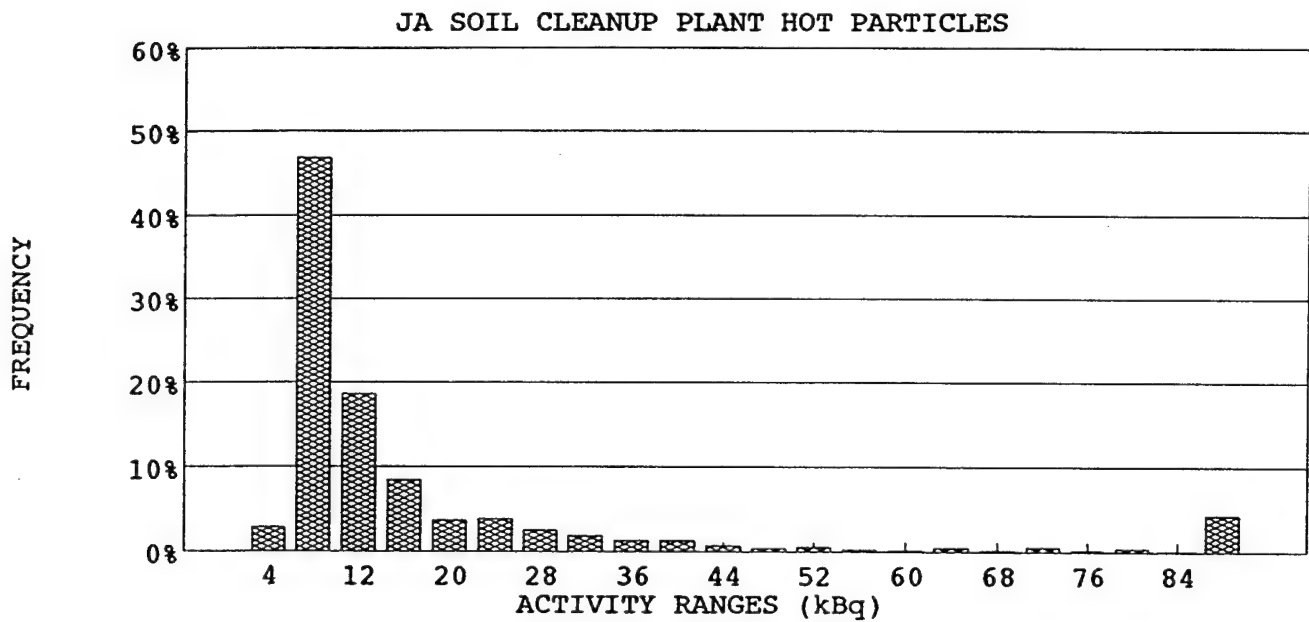
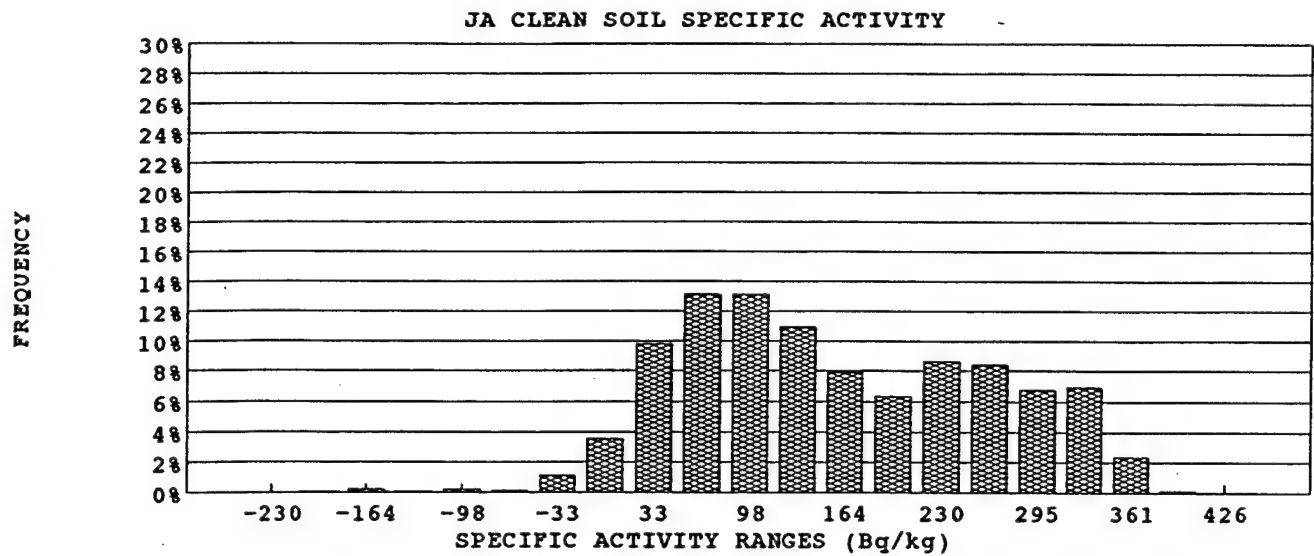
Date	04-Aug-94	Excused Delays for day (sorter-hrs)	24 hr
Contract day (from 6 Sep)	274	Excused delays for contract (sorter-hrs)	4,896 hr
Current Contract week	46	Excused delay days (plant-days)	122 days
		Excused delay months (plant-month)	4.71 months
Soil production for Day	141 MT		
Cumulative Soil Production for Week	693 MT	Percent of contract completed	55.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,823 MT
Since 6 Sep 93	53,630 MT	Days ahead or behind schedule	5.8 days
Since 6 Aug 93	55,221 MT		
Total Soil production for project	81,508 MT		

MT = metric tons

SORTER 1				04-Aug-94					
SORTER SOIL DENSITY		1.15 tons/m ³		BACKGROUND		0.70 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		2.7 tons		68.2 tons		70.9 tons			
MAXIMUM/SORT		61.0 kg		61.0 kg					
MINIMUM/SORT		0.7 kg		46.2 kg					
VOLUME IN-GROUND		2.1 yd ³		54.1 yd ³		56.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		96.2%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		34,305 kBq		7,918 kBq		9,945 kBq			
MAXIMUM/SORT		3,377 kBq		1,271 kBq		23 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-15 kBq			
SPECIFIC ACTIVITY				2,953 Bq/kg		146 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,278		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				29		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				818		07:19 11:25			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				451		09:35 13:56			
UNEXPLAINED RECORDS (20)						10:44			
0<AD<1kBq & MD>0				4		13:26			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,780					
2-SEC RECORDS WITH SORTS				1,285					
2-SEC RECORDS WITHOUT SORTS				11,495					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,563					
NONPROCESSING RECORDS (Test, calibration, etc)				9					
2-SEC SORT DETECTORS									
1 DET		913	71.05%	5 DET		4	0.31%		
2 DET		294	22.88%	6 DET		0	0.00%		
3 DET		61	4.75%	7 DET		0	0.00%		
4 DET		13	1.01%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				28.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	33	5.1%	-14000	1	-230	0.1%	4	33	2.6%
2	106	16.5%	-12000	1	-197	0.1%	8	601	46.8%
3	88	13.7%	-10000	2	-164	0.2%	12	245	19.1%
4	95	14.8%	-8000	5	-131	0.4%	16	114	8.9%
5	112	17.4%	-6000	3	-98	0.2%	20	71	5.5%
6	74	11.5%	-4000	11	-66	0.9%	24	40	3.1%
7	103	16.0%	-2000	21	-33	1.7%	28	33	2.6%
8	33	5.1%	0	60	0	4.8%	32	25	1.9%
TOTAL	644		2000	127	33	10.1%	36	14	1.1%
2-GATE SORTS			4000	186	66	14.8%	40	13	1.0%
DET	SORTS	FREQ%	6000	183	98	14.5%	44	15	1.2%
9	81	12.6%	8000	117	131	9.3%	48	7	0.5%
10	85	13.3%	10000	92	164	7.3%	52	8	0.6%
11	85	13.3%	12000	75	197	6.0%	56	3	0.2%
12	94	14.7%	14000	90	230	7.2%	60	3	0.2%
13	114	17.8%	16000	90	262	7.2%	64	2	0.2%
14	105	16.4%	18000	88	295	7.0%	68	2	0.2%
15	86	13.4%	20000	64	328	5.1%	72	2	0.2%
16	76	11.9%	22000	32	361	2.5%	76	4	0.3%
TOTAL	641		24000	10	393	0.8%	80	3	0.2%
			26000	0	426	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	47	3.7%
			TOTAL	1,258			TOTAL	1,285	
EVENT TYPES		HPE	1,298	MPE	223	DISE	2,237		



SORTER 2				04-Aug-94					
SORTER SOIL DENSITY			1.15 tons/m³	BACKGROUND		0.77 ±	0.05 c/s		
SOIL		CONTAMINATED		CLEAN	TOTAL				
MASS TOTAL		4.3 tons		65.6 tons	69.8 tons				
MAXIMUM/SORT		61.0 kg		61.0 kg					
MINIMUM/SORT		0.7 kg		44.2 kg					
VOLUME IN-GROUND		3.4 yd³		52.0 yd³	55.4 yd³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.9%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT	CLEAN				
TOTAL		62,842 kBq		14,195 kBq	10,479 kBq				
MAXIMUM/SORT		6,774 kBq		3,306 kBq	23 kBq				
MINIMUM/SORT		3 kBq		0 Bq	-10 kBq				
SPECIFIC ACTIVITY				3,311 Bq/kg	160 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,260	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				57	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				736	10:21	11:25			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				518		13:54			
UNEXPLAINED RECORDS (51)									
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,600					
2-SEC RECORDS WITH SORTS				1,459					
2-SEC RECORDS WITHOUT SORTS				11,141					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,719					
NONPROCESSING RECORDS (Test, calibration, etc)				11					
2-SEC SORT DETECTORS									
1 DET		1,030	70.60%	5 DET	4	0.27%			
2 DET		329	22.55%	6 DET	0	0.00%			
3 DET		77	5.28%	7 DET	0	0.00%			
4 DET		19	1.30%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				24.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	34	4.6%	-14000	0	-230	0.0%	4	42	2.9%
2	139	18.9%	-12000	1	-197	0.1%	8	683	46.8%
3	124	16.9%	-10000	3	-164	0.2%	12	271	18.6%
4	131	17.8%	-8000	1	-131	0.1%	16	123	8.4%
5	130	17.7%	-6000	3	-98	0.2%	20	55	3.8%
6	100	13.6%	-4000	2	-66	0.2%	24	57	3.9%
7	63	8.6%	-2000	14	-33	1.2%	28	38	2.6%
8	13	1.8%	0	43	0	3.5%	32	28	1.9%
TOTAL	734		2000	119	33	9.8%	36	20	1.4%
			4000	159	66	13.1%	40	19	1.3%
2-GATE SORTS			6000	159	98	13.1%	44	11	0.8%
DET	SORTS	FREQ%	8000	133	131	11.0%	48	6	0.4%
9	95	13.1%	10000	96	164	7.9%	52	8	0.5%
10	144	19.9%	12000	77	197	6.3%	56	4	0.3%
11	125	17.2%	14000	105	230	8.6%	60	3	0.2%
12	141	19.4%	16000	102	262	8.4%	64	7	0.5%
13	110	15.2%	18000	82	295	6.8%	68	3	0.2%
14	78	10.8%	20000	84	328	6.9%	72	8	0.5%
15	32	4.4%	22000	29	361	2.4%	76	2	0.1%
TOTAL	725		24000	2	393	0.2%	80	6	0.4%
			26000	0	426	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	64	4.4%
			TOTAL	1,214			TOTAL	1,459	
EVENT TYPES		HPE	1,458	MPE	243	DISE	4,470		



WORK HISTORY - JA SOIL CLEANUP PLANT

05-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

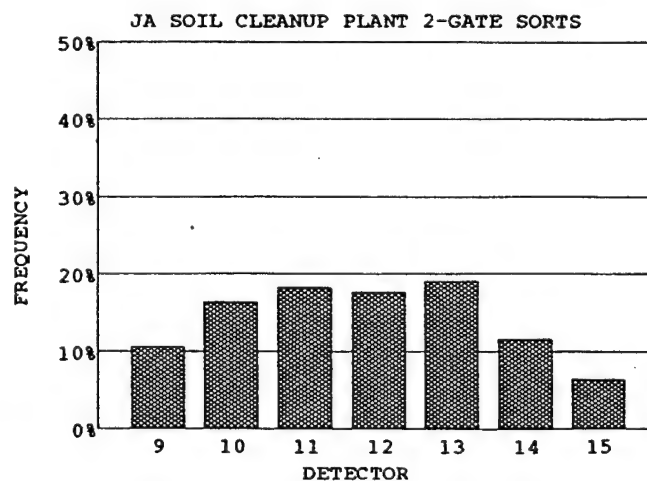
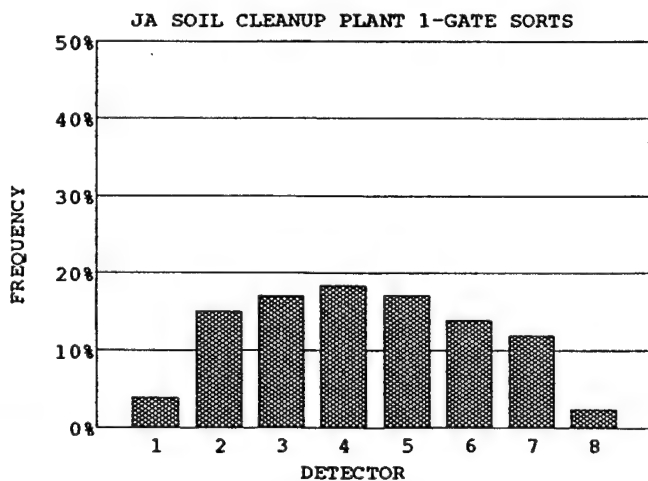
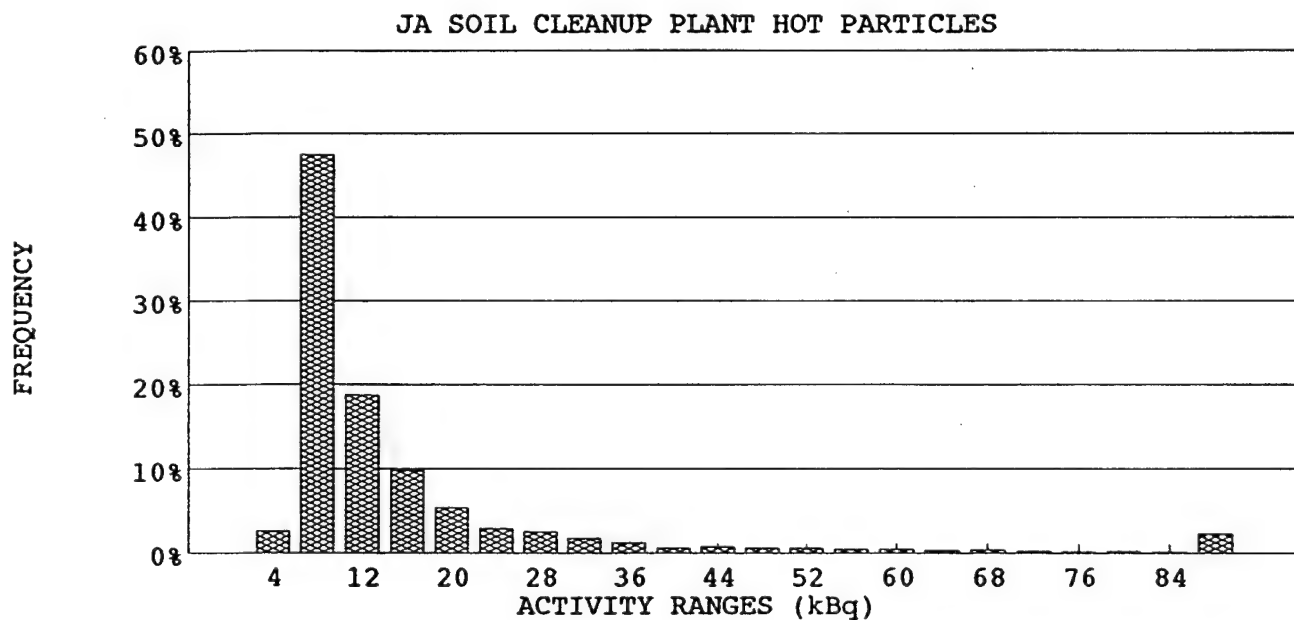
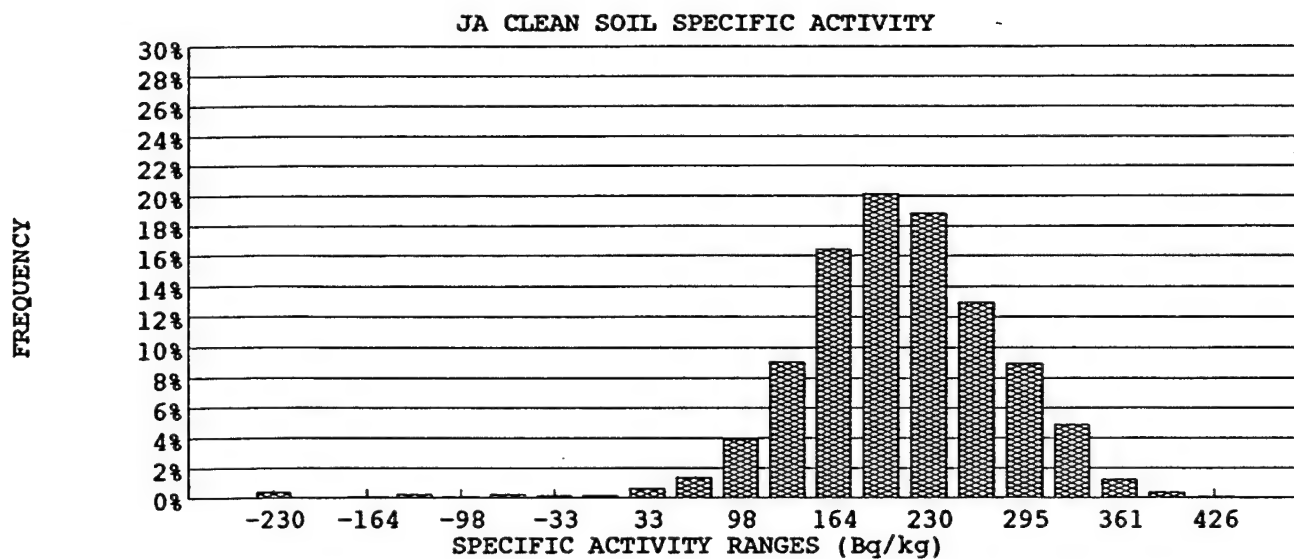
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.4 hr	9.4 hr	0.0 hr	0.0 hr	18.8 hr
SORTER START-UP	06:26	06:26	NA	NA	
START SOIL PROCESSING	06:31	06:31	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:12	16:12	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
ACTUAL PROCESS HOURS	8.3 hr	8.3 hr	0.0 hr	0.0 hr	16.6 hr
DOWN-TIME	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.2 hr
SYSTEM PAUSE	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.7 hr
SORTER NONAVAILABLE TIME	0.6 hr	0.6 hr	10.0 hr	10.0 hr	21.2 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.4%
PRODUCTIVITY					41.6%

PRODUCTIVITY

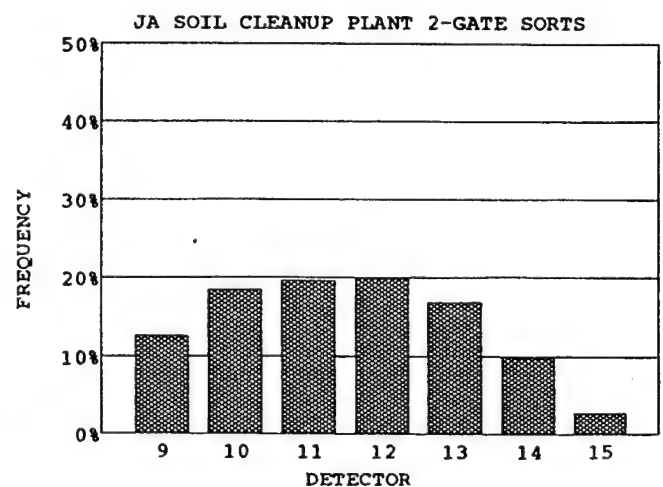
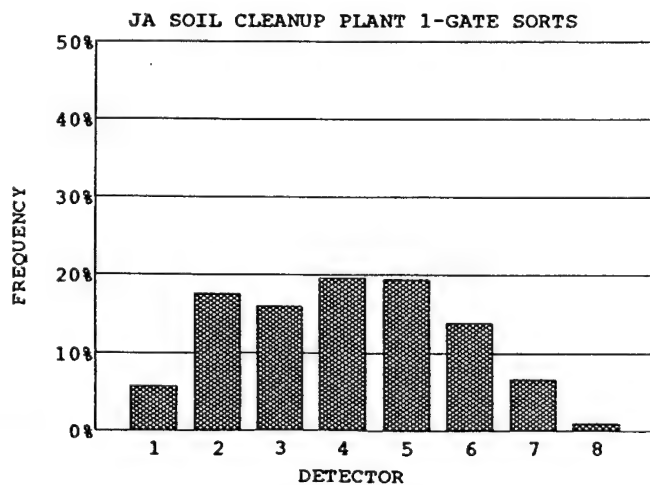
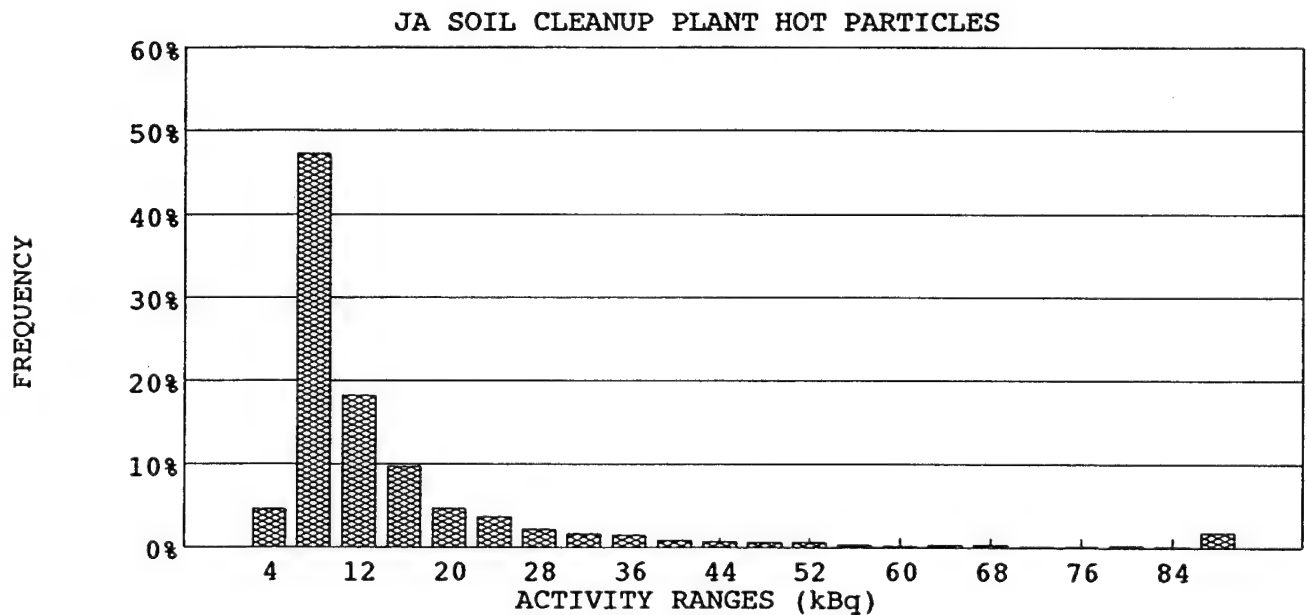
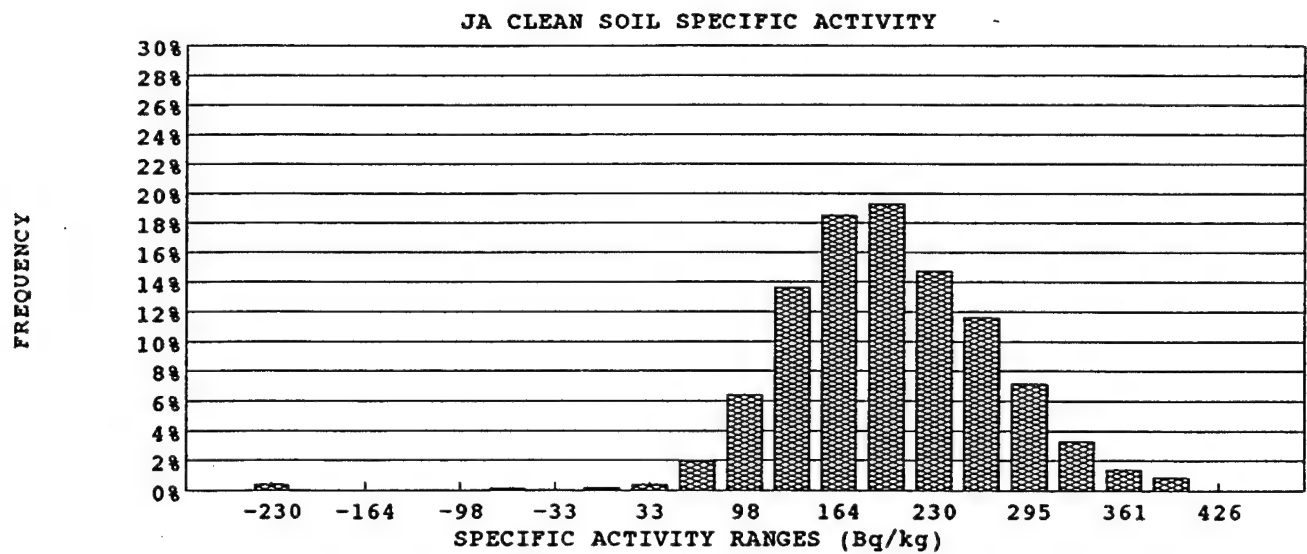
Date	05-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	275	Excused delays for contract (sorter-hrs)	4,916 hr
Current Contract week	46	Excused delay days (plant-days)	123 days
		Excused delay months (plant-month)	4.73 months
Soil production for Day	183 MT		
Cumulative Soil Production for Week	876 MT	Percent of contract completed	55.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,847 MT
Since 6 Sep 93	53,813 MT	Days ahead or behind schedule	5.8 days
Since 6 Aug 93	55,404 MT		
Total Soil production for project	81,690 MT		

MT = metric tons

SORTER 1				05-Aug-94					
SORTER SOIL DENSITY		1.31 tons/m³		BACKGROUND		0.82 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		4.1 tons		87.1 tons		91.2 tons			
MAXIMUM/SORT		61.0 kg		61.0 kg					
MINIMUM/SORT		0.8 kg		50.3 kg					
VOLUME IN-GROUND		3.3 yd³		69.0 yd³		72.3 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.5%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		85,907 kBq		18,420 kBq		17,504 kBq			
MAXIMUM/SORT		9,222 kBq		3,214 kBq		24 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-18 kBq			
SPECIFIC ACTIVITY				4,446 Bq/kg		201 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,495		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				13		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				303		10:49 11:22			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,179		11:09			
UNEXPLAINED RECORDS				0		11:11			
0<AD<1kBq & MD>0				4		15:48			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,950					
2-SEC RECORDS WITH SORTS				3,902					
2-SEC RECORDS WITHOUT SORTS				11,048					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,397					
NONPROCESSING RECORDS (Test, calibration, etc)				8					
2-SEC SORT DETECTORS									
1 DET		2,880	73.81%	5 DET		11	0.28%		
2 DET		829	21.25%	6 DET		0	0.00%		
3 DET		159	4.07%	7 DET		0	0.00%		
4 DET		23	0.59%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				10.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATES SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	79	4.0%	-14000	6	-230	0.4%	4	102	2.6%
2	299	15.0%	-12000	0	-197	0.0%	8	1,854	47.5%
3	339	17.0%	-10000	1	-164	0.1%	12	732	18.8%
4	367	18.5%	-8000	3	-131	0.2%	16	381	9.8%
5	341	17.1%	-6000	1	-98	0.1%	20	212	5.4%
6	278	14.0%	-4000	3	-66	0.2%	24	116	3.0%
7	238	12.0%	-2000	2	-33	0.1%	28	101	2.6%
8	48	2.4%	0	2	0	0.1%	32	69	1.8%
TOTAL	1,989		2000	9	33	0.6%	36	49	1.3%
			4000	20	66	1.3%	40	24	0.6%
2-GATES SORTS			6000	58	98	3.9%	44	30	0.8%
DET	SORTS	FREQ%	8000	135	131	9.1%	48	23	0.6%
9	202	10.6%	10000	245	164	16.4%	52	23	0.6%
10	314	16.4%	12000	300	197	20.1%	56	17	0.4%
11	349	18.2%	14000	281	230	18.9%	60	19	0.5%
12	337	17.6%	16000	193	262	13.0%	64	11	0.3%
13	365	19.1%	18000	134	295	9.0%	68	14	0.4%
14	222	11.6%	20000	73	328	4.9%	72	10	0.3%
15	124	6.5%	22000	18	361	1.2%	76	7	0.2%
TOTAL	1,913		24000	5	393	0.3%	80	10	0.3%
			26000	1	426	0.1%	84	8	0.2%
			>28000	0	0	0.0%	>84	90	2.3%
			TOTAL	1,490			TOTAL	3,902	
EVENT TYPES		HPE	3,897	MPE	539	DISE	986		



SORTER 2				05-Aug-94					
SORTER SOIL DENSITY		1.31 tons/m³		BACKGROUND		0.89 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		4.4 tons		86.9 tons		91.3 tons			
MAXIMUM/SORT		61.0 kg		61.0 kg					
MINIMUM/SORT		0.8 kg		48.8 kg					
VOLUME IN-GROUND		3.5 yd³		68.9 yd³		72.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.1%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		62,959 kBq		14,650 kBq		16,597 kBq			
MAXIMUM/SORT		447 kBq		158 kBq		24 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				3,303 Bq/kg		191 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,497		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				11		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				250		07:07 11:22			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,236		09:35			
UNEXPLAINED RECORDS				0		09:35			
0<AD<1kBq & MD>0				6		09:57			
AD=0 & MD>0				0		10:24			
AD<0 & MD >0				0		14:03			
2-SEC COUNT PERIODS				14,970					
2-SEC RECORDS WITH SORTS				4,352					
2-SEC RECORDS WITHOUT SORTS				10,618					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,849					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		3,228	74.17%	5 DET		3	0.07%		
2 DET		920	21.14%	6 DET		0	0.00%		
3 DET		175	4.02%	7 DET		0	0.00%		
4 DET		26	0.60%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				9.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	126	5.8%	-14000	6	-230	0.4%	4	200	4.6%
2	385	17.6%	-12000	0	-197	0.0%	8	2,055	47.2%
3	350	16.0%	-10000	0	-164	0.0%	12	791	18.2%
4	428	19.6%	-8000	0	-131	0.0%	16	421	9.7%
5	425	19.4%	-6000	0	-98	0.0%	20	204	4.7%
6	305	13.9%	-4000	2	-66	0.1%	24	158	3.6%
7	147	6.7%	-2000	1	-33	0.1%	28	97	2.2%
8	22	1.0%	0	3	0	0.2%	32	71	1.6%
TOTAL	2,188		2000	6	33	0.4%	36	65	1.5%
2-GATE SORTS			4000	29	66	1.9%	40	37	0.9%
DET	SORTS	FREQ%	6000	95	98	6.4%	44	33	0.8%
9	272	12.6%	8000	203	131	13.6%	48	27	0.6%
10	399	18.4%	10000	276	164	18.5%	52	27	0.6%
11	424	19.6%	12000	288	197	19.3%	56	16	0.4%
12	432	20.0%	14000	220	230	14.7%	60	7	0.2%
13	364	16.8%	16000	173	262	11.6%	64	16	0.4%
14	213	9.8%	18000	107	295	7.2%	68	15	0.3%
15	60	2.8%	20000	49	328	3.3%	72	9	0.2%
TOTAL	2,164		22000	21	361	1.4%	76	8	0.2%
			24000	13	393	0.9%	80	10	0.2%
			26000	0	426	0.0%	84	7	0.2%
			>28000	0	0	0.0%	>84	78	1.8%
			TOTAL	1,492			TOTAL	4,352	
EVENT TYPES		HPE	4,384	MPE	589	DISE	831		



WORK HISTORY - JA SOIL CLEANUP PLANT

06-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	3.1 hr	3.1 hr	0.0 hr	0.0 hr	6.2 hr
SORTER START-UP	07:09	07:09	NA	NA	
START SOIL PROCESSING	07:14	07:14	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	10:15	10:15	NA	NA	
END SOIL PROCESSING	10:04	10:02	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	2.0 hr	1.9 hr	0.0 hr	0.0 hr	3.9 hr
DOWN-TIME	1.1 hr	1.2 hr	0.0 hr	0.0 hr	2.3 hr
SYSTEM PAUSE	0.8 hr	0.8 hr	0.0 hr	0.0 hr	1.6 hr
SORTER NONAVAILABLE TIME	6.9 hr	6.9 hr	10.0 hr	10.0 hr	33.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					63.4%
PRODUCTIVITY					9.8%

PRODUCTIVITY

Date	06-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	276	Excused delays for contract (sorter-hrs)	4,936 hr
Current Contract week	46	Excused delay days (plant-days)	123 days
		Excused delay months (plant-month)	4.75 months
Soil production for Day	43 MT		
Cumulative Soil Production for Week	919 MT	Percent of contract completed	55.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,732 MT
Since 6 Sep 93	53,856 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	55,447 MT		
Total Soil production for project	81,733 MT		

MT = metric tons

SORTER 1

06-Aug-94

SORTER SOIL DENSITY 1.31 tons/m³ BACKGROUND 0.73 ± 0.04 c/s

SOIL

	CONTAMINATED	CLEAN	TOTAL
MASS TOTAL	0.3 tons	21.8 tons	22.1 tons
MAXIMUM/SORT	9.9 kg	61.0 kg	
MINIMUM/SORT	0.8 kg	51.1 kg	
VOLUME IN-GROUND	0.3 yd ³	17.2 yd ³	17.5 yd ³
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))	98.5%		

ACTIVITY

	PARTICLE	HOT	CLEAN
TOTAL	5,331 kBq	1,243 kBq	2,126 kBq
MAXIMUM/SORT	174 kBq	76 kBq	23 kBq
MINIMUM/SORT	3 kBq	0 Bq	-11 kBq
SPECIFIC ACTIVITY		3,735 Bq/kg	98 Bq/kg

SORTS

20-SEC PROCESS PERIODS

ALL 80 ELEMENTS SORT (MD>0&MND=0)	0	362	UNEXP	PAUSE
NONE (AD=0 & MD=0 & MND>0)	235		TIME	TIME
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)	127		07:41	08:13
UNEXPLAINED RECORDS	0			
0<AD<1kBq & MD>0	1			
AD=0 & MD>0	0			
AD<0 & MD>0	0			

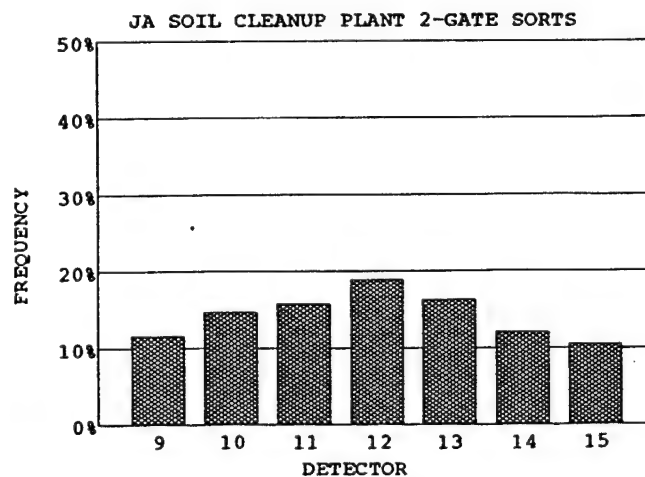
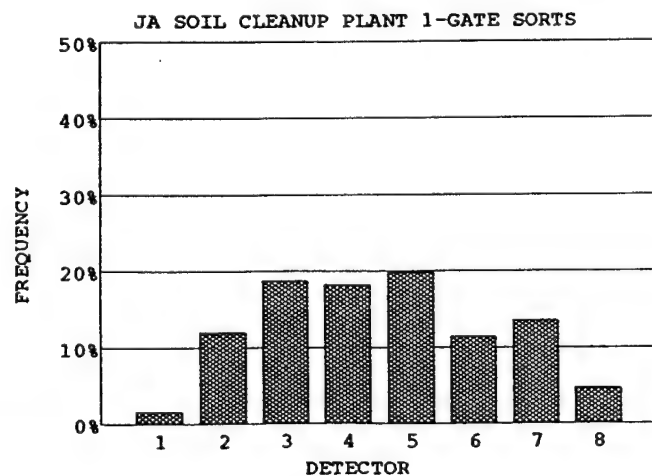
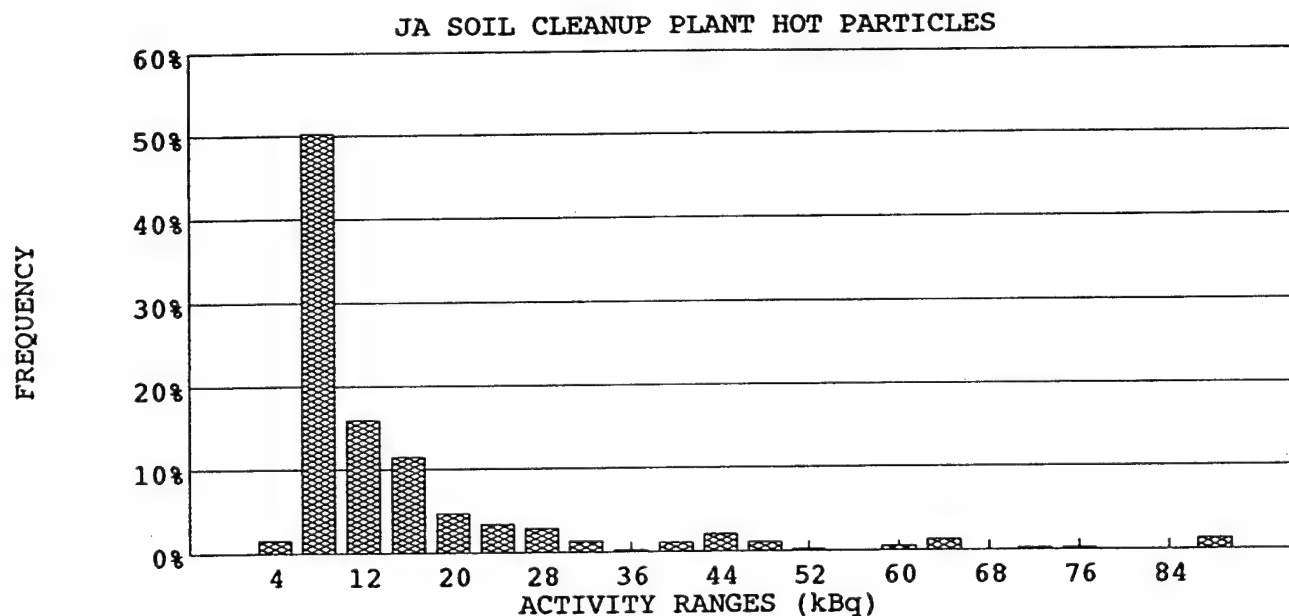
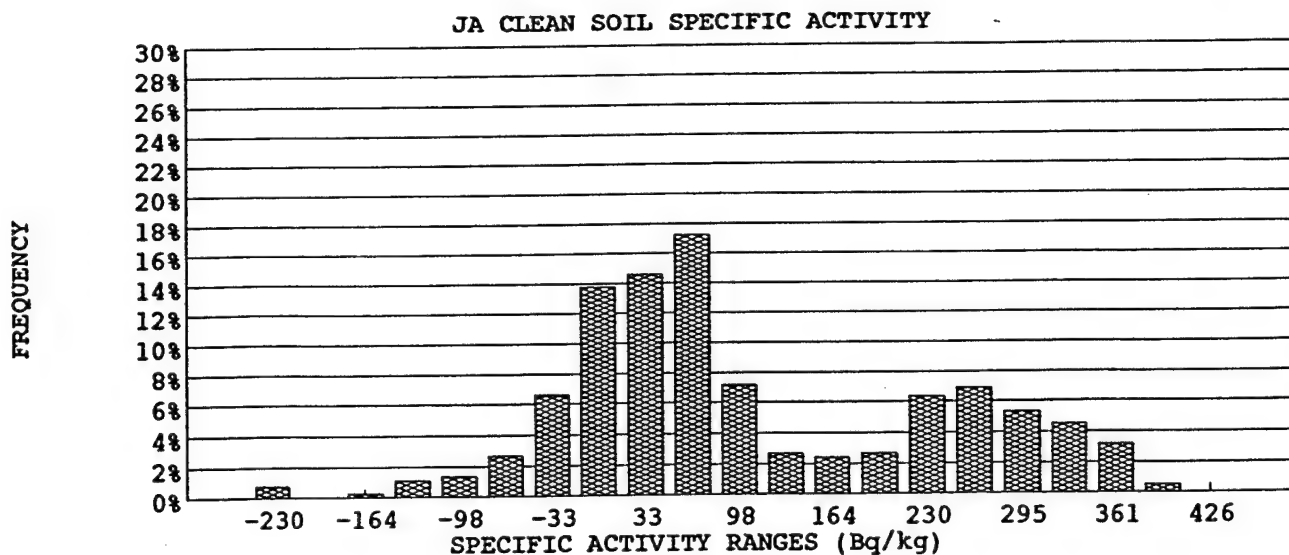
2-SEC COUNT PERIODS

2-SEC RECORDS WITH SORTS	382	3,620		
2-SEC RECORDS WITHOUT SORTS	3,238			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)		744		
NONPROCESSING RECORDS (Test, calibration, etc)		15		
2-SEC SORT DETECTORS				
1 DET	267 69.90%	5 DET	0	0.00%
2 DET	84 21.99%	6 DET	0	0.00%
3 DET	25 6.54%	7 DET	0	0.00%
4 DET	6 1.57%	8 DET	0	0.00%

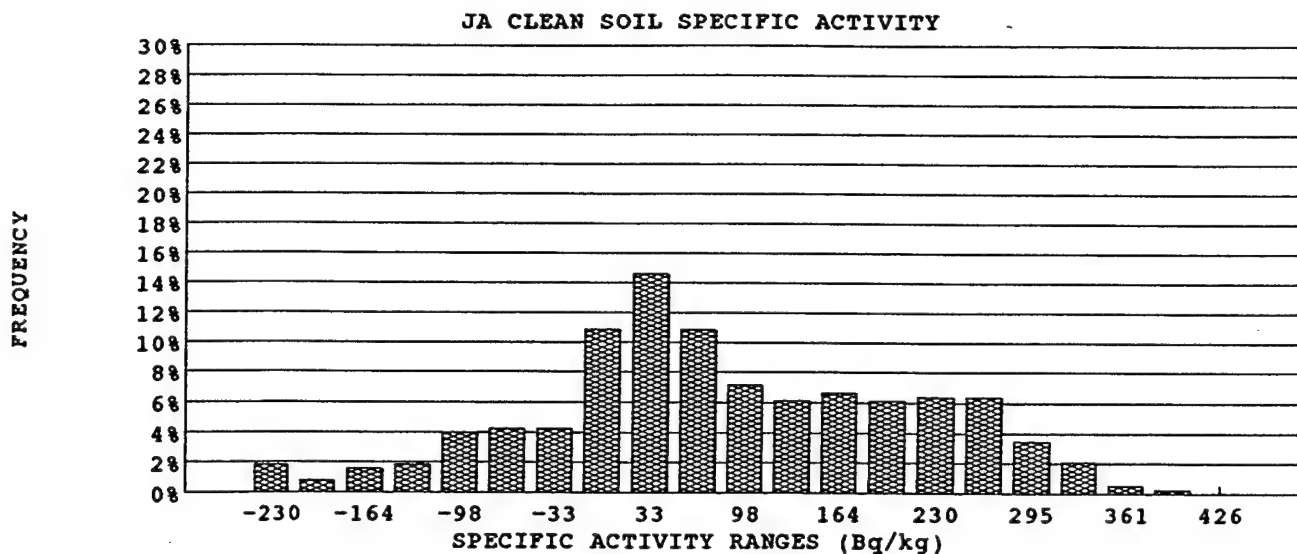
AVERAGE TIME BETWEEN 2-SEC SORTS 27.1 sec

FREQUENCY DISTRIBUTIONS

1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	-14000	3	-230	0.8%	4	6	1.6%
2	23	-12000	0	-197	0.0%	8	192	50.3%
3	36	-10000	1	-164	0.3%	12	61	16.0%
4	35	-8000	4	-131	1.1%	16	44	11.5%
5	38	-6000	5	-98	1.3%	20	18	4.7%
6	22	-4000	10	-66	2.7%	24	13	3.4%
7	26	-2000	25	-33	6.6%	28	11	2.9%
8	9	0	52	0	13.8%	32	5	1.3%
TOTAL	192	2000	55	33	14.6%	36	1	0.3%
		4000	65	66	17.2%	40	4	1.0%
		6000	27	98	7.2%	44	8	2.1%
		8000	10	131	2.7%	48	4	1.0%
		10000	9	164	2.4%	52	1	0.3%
		12000	10	197	2.7%	56	0	0.0%
		14000	24	230	6.4%	60	2	0.5%
		16000	26	262	6.9%	64	5	1.3%
		18000	20	295	5.3%	68	0	0.0%
		20000	17	328	4.5%	72	1	0.3%
		22000	12	361	3.2%	76	1	0.3%
		24000	2	393	0.5%	80	0	0.0%
		26000	0	426	0.0%	84	0	0.0%
		>28000	0	0	0.0%	>84	5	1.3%
		TOTAL	377			TOTAL	382	
EVENT TYPES	HPE	389	MPE	46	DISE	0		



SORTER 2				06-Aug-94					
SORTER SOIL DENSITY		1.31 tons/m³		BACKGROUND		0.80 ± 0.07 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.4 tons		20.6 tons		21.0 tons			
MAXIMUM/SORT		10.7 kg		61.0 kg					
MINIMUM/SORT		0.8 kg		50.3 kg					
VOLUME IN-GROUND		0.3 yd³		16.4 yd³		16.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.1%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		9,541 kBq		1,975 kBq		1,835 kBq			
MAXIMUM/SORT		1,484 kBq		431 kBq		22 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				4,917 Bq/kg		89 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				345		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				207		None 08:13			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				138					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				3,450					
2-SEC RECORDS WITH SORTS				466					
2-SEC RECORDS WITHOUT SORTS				2,984					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				811					
NONPROCESSING RECORDS (Test, calibration, etc)				32					
2-SEC SORT DETECTORS									
1 DET		331	71.03%	5 DET	1	0.21%			
2 DET		101	21.67%	6 DET	0	0.00%			
3 DET		26	5.58%	7 DET	0	0.00%			
4 DET		7	1.50%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				20.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	15	6.5%	-14000	7	-230	1.9%	4	16	3.4%
2	41	17.7%	-12000	3	-197	0.8%	8	222	47.6%
3	47	20.3%	-10000	6	-164	1.6%	12	70	15.0%
4	42	18.1%	-8000	7	-131	1.9%	16	38	8.2%
5	42	18.1%	-6000	15	-98	4.0%	20	27	5.8%
6	31	13.4%	-4000	16	-66	4.2%	24	18	3.9%
7	11	4.7%	-2000	16	-33	4.2%	28	17	3.6%
8	3	1.3%	0	41	0	10.9%	32	9	1.9%
TOTAL	232		2000	55	33	14.6%	36	11	2.4%
			4000	41	66	10.9%	40	1	0.2%
2-GATE SORTS			6000	27	98	7.2%	44	4	0.9%
DET	SORTS	FREQ%	8000	23	131	6.1%	48	3	0.6%
9	26	11.1%	10000	25	164	6.6%	52	0	0.0%
10	52	22.2%	12000	23	197	6.1%	56	3	0.6%
11	49	20.9%	14000	24	230	6.4%	60	4	0.9%
12	45	19.2%	16000	24	262	6.4%	64	1	0.2%
13	38	16.2%	18000	13	295	3.4%	68	2	0.4%
14	17	7.3%	20000	8	328	2.1%	72	2	0.4%
15	7	3.0%	22000	2	361	0.5%	76	1	0.2%
TOTAL	234		24000	1	393	0.3%	80	6	1.3%
			26000	0	426	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	10	2.1%
			TOTAL	377			TOTAL	466	
EVENT TYPES		HPE	460	MPE	65	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

08-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

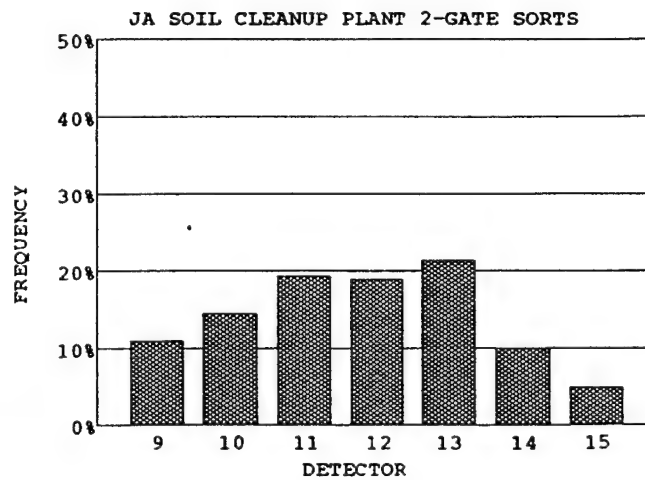
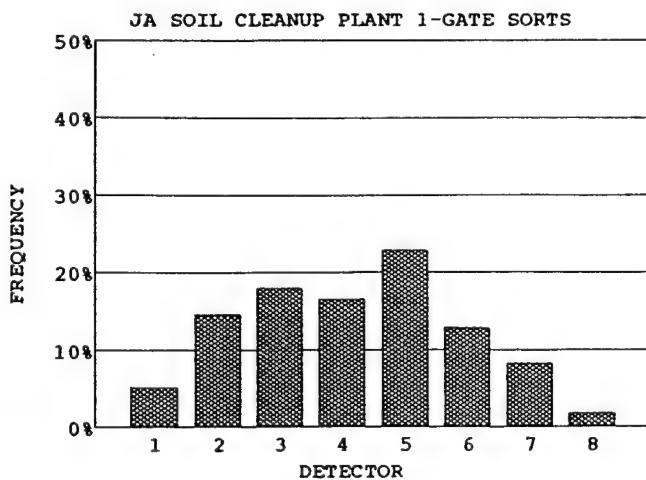
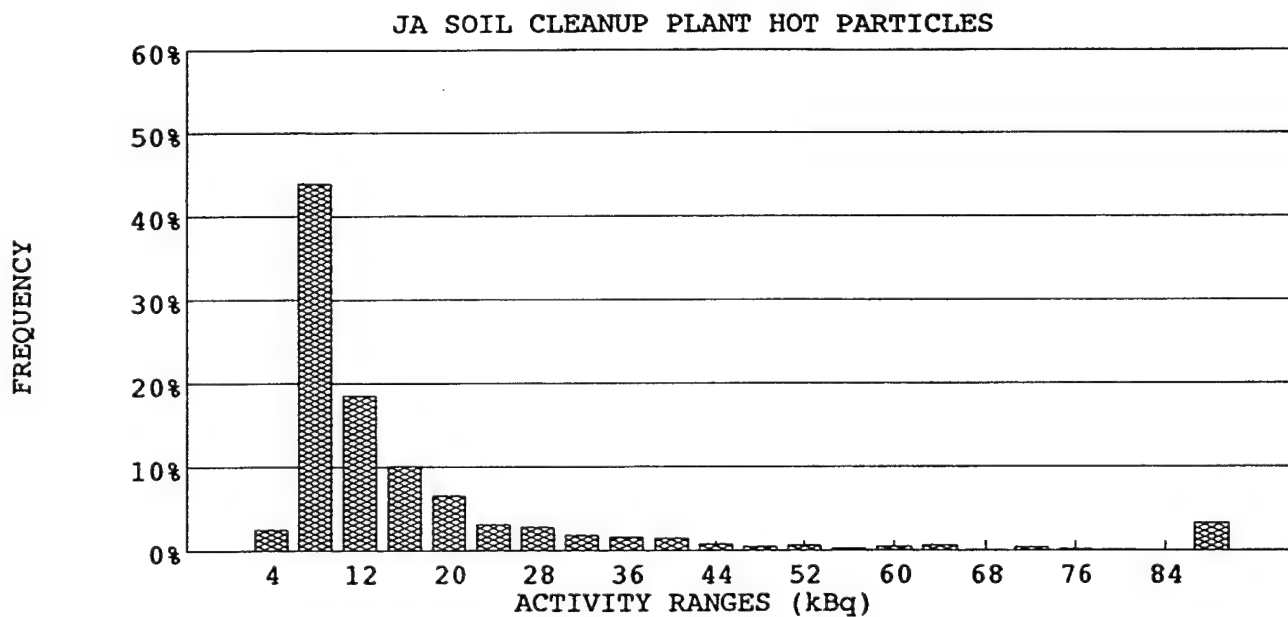
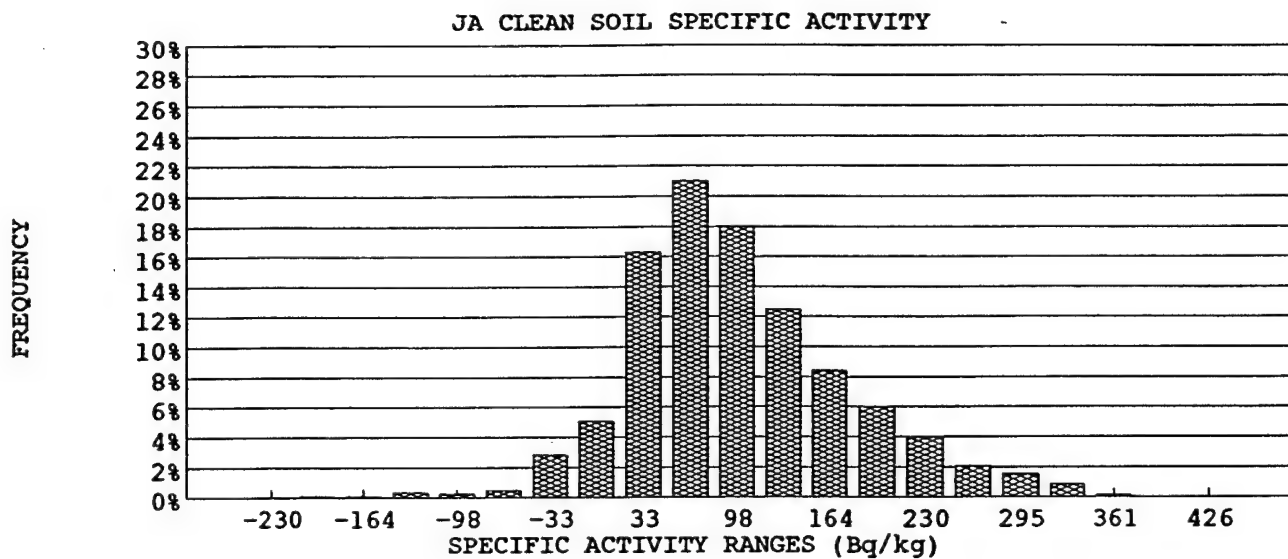
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.0 hr	9.0 hr	0.0 hr	0.0 hr	17.9 hr
SORTER START-UP	06:53	06:53	NA	NA	
START SOIL PROCESSING	07:03	07:04	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:07	16:08	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
ACTUAL PROCESS HOURS	7.9 hr	7.9 hr	0.0 hr	0.0 hr	15.8 hr
DOWN-TIME	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.1 hr
SYSTEM PAUSE	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.3 hr
SORTER NONAVAILABLE TIME	1.0 hr	1.0 hr	10.0 hr	10.0 hr	22.1 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.5%
PRODUCTIVITY					39.6%

PRODUCTIVITY

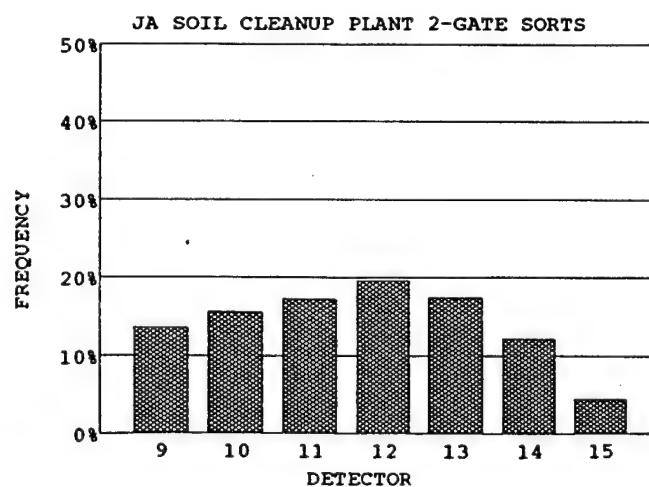
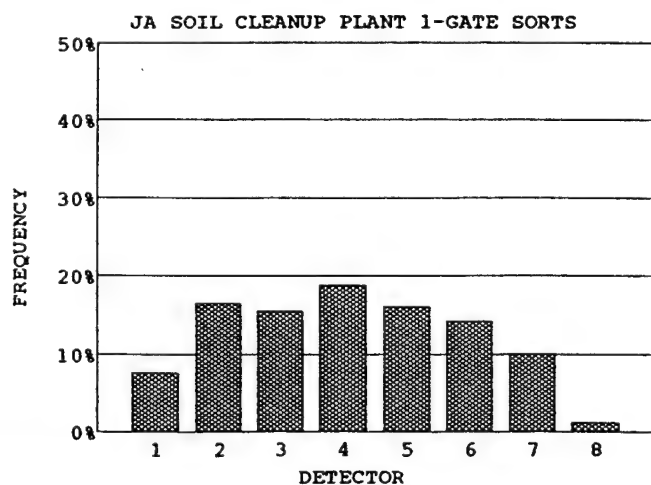
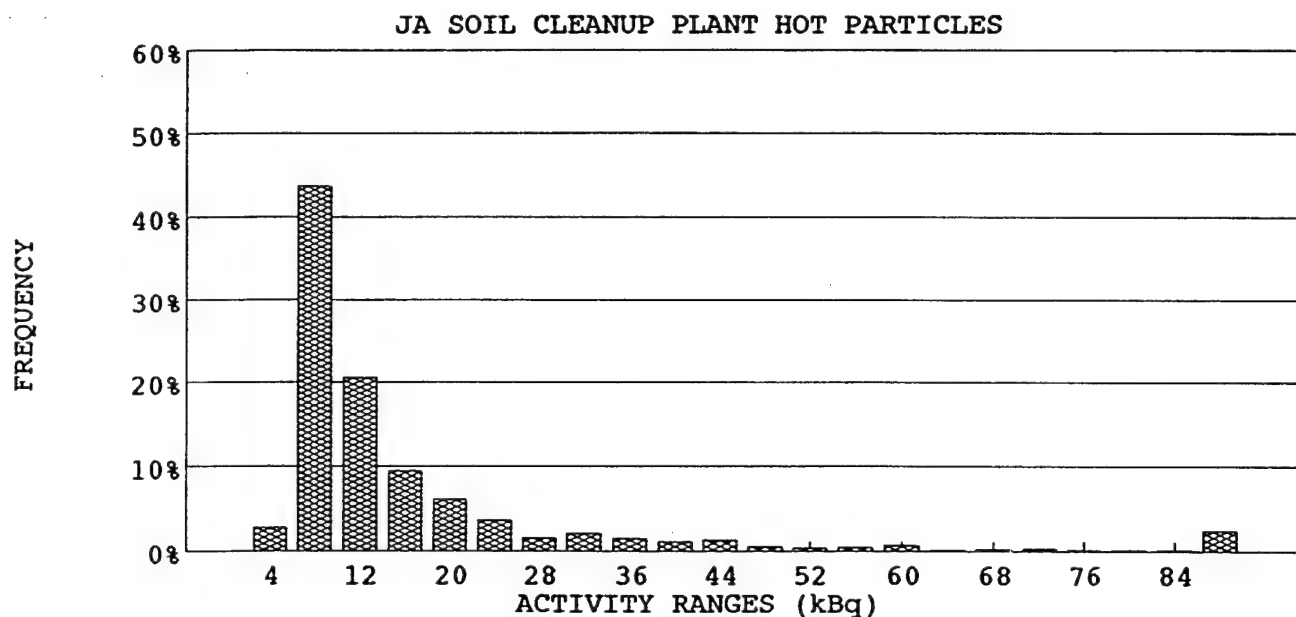
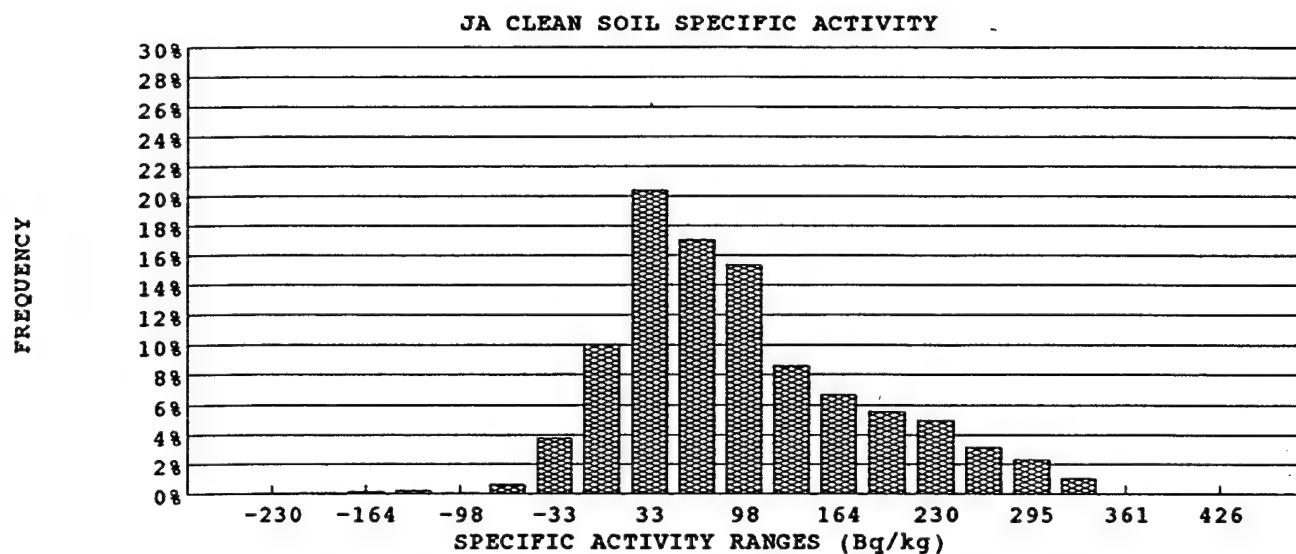
Date	08-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	277	Excused delays for contract (sorter-hrs)	4,956 hr
Current Contract week	47	Excused delay days (plant-days)	124 days
		Excused delay months (plant-month)	4.77 months
Soil production for Day	160 MT		
Cumulative Soil Production for Week	160 MT	Percent of contract completed	55.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,734 MT
Since 6 Sep 93	54,016 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	55,607 MT		
Total Soil production for project	81,894 MT		

MT = metric tons

SORTER 1				08-Aug-94					
SORTER SOIL DENSITY			1.15 tons/m³	BACKGROUND		0.69 ±	0.02 c/s		
SOIL				CONTAMINATED	CLEAN	TOTAL			
MASS TOTAL				1.9 tons	78.4 tons	80.3 tons			
MAXIMUM/SORT				53.6 kg	61.0 kg				
MINIMUM/SORT				0.7 kg	46.9 kg				
VOLUME IN-GROUND				1.5 yd³	62.1 yd³	63.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				97.6%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				23,533 kBq	5,525 kBq	7,199 kBq			
MAXIMUM/SORT				564 kBq	250 kBq	20 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-11 kBq			
SPECIFIC ACTIVITY					2,869 Bq/kg	92 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,427		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				18		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				919		08:08	11:17		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				508		14:55			
UNEXPLAINED RECORDS (18)						15:03			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,270					
2-SEC RECORDS WITH SORTS				1,241					
2-SEC RECORDS WITHOUT SORTS				13,029					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,668					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		885	71.31%	5 DET	1	0.08%			
2 DET		290	23.37%	6 DET	0	0.00%			
3 DET		53	4.27%	7 DET	0	0.00%			
4 DET		12	0.97%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				32.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	32	5.1%	-14000	0	-230	0.0%	4	32	2.6%
2	91	14.6%	-12000	1	-197	0.1%	8	545	43.9%
3	112	18.0%	-10000	1	-164	0.1%	12	230	18.5%
4	103	16.6%	-8000	5	-131	0.4%	16	125	10.1%
5	142	22.8%	-6000	4	-98	0.3%	20	82	6.6%
6	80	12.9%	-4000	7	-66	0.5%	24	39	3.1%
7	51	8.2%	-2000	40	-33	2.8%	28	36	2.9%
8	11	1.8%	0	72	0	5.1%	32	23	1.9%
TOTAL	622		2000	231	33	16.3%	36	20	1.6%
			4000	298	66	21.0%	40	18	1.5%
2-GATE SORTS			6000	255	98	18.0%	44	10	0.8%
DET	SORTS	FREQ%	8000	177	131	12.5%	48	6	0.5%
9	68	11.0%	10000	119	164	8.4%	52	8	0.6%
10	90	14.5%	12000	85	197	6.0%	56	3	0.2%
11	120	19.4%	14000	56	230	4.0%	60	6	0.5%
12	117	18.9%	16000	29	262	2.0%	64	8	0.6%
13	132	21.3%	18000	22	295	1.6%	68	1	0.1%
14	62	10.0%	20000	12	328	0.8%	72	5	0.4%
15	30	4.8%	22000	2	361	0.1%	76	2	0.2%
TOTAL	619		24000	0	393	0.0%	80	1	0.1%
			26000	0	426	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	41	3.3%
			TOTAL	1,416			TOTAL	1,241	
EVENT TYPES		HPE	1,230	MPE	225	DISE	1,349		



SORTER 2				08-Aug-94					
SORTER SOIL DENSITY		1.15 tons/m ³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		2.5 tons		77.7 tons		80.1 tons			
MAXIMUM/SORT		53.6 kg		61.0 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		1.9 yd ³		61.6 yd ³		63.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		96.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		25,162 kBq		6,190 kBq		6,720 kBq			
MAXIMUM/SORT		894 kBq		341 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				2,524 Bq/kg		87 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,424		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				26		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				875		07:34 11:17			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				549		09:56			
UNEXPLAINED RECORDS (26)						10:53			
0<AD<1kBq & MD>0				5		12:55			
AD=0 & MD>0				0		13:13			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,240					
2-SEC RECORDS WITH SORTS				1,390					
2-SEC RECORDS WITHOUT SORTS				12,850					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,814					
NONPROCESSING RECORDS (Test, calibration, etc)				10					
2-SEC SORT DETECTORS									
1 DET		1,028	73.96%	5 DET	6	0.43%			
2 DET		294	21.15%	6 DET	0	0.00%			
3 DET		55	3.96%	7 DET	0	0.00%			
4 DET		7	0.50%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				27.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	53	7.6%	-14000	0	-230	0.0%	4	39	2.8%
2	115	16.5%	-12000	1	-197	0.1%	8	607	43.7%
3	108	15.5%	-10000	2	-164	0.1%	12	285	20.5%
4	131	18.8%	-8000	3	-131	0.2%	16	132	9.5%
5	112	16.1%	-6000	1	-98	0.1%	20	85	6.1%
6	99	14.2%	-4000	9	-66	0.6%	24	51	3.7%
7	70	10.1%	-2000	53	-33	3.8%	28	22	1.6%
8	8	1.1%	0	141	0	10.0%	32	29	2.1%
TOTAL	696		2000	287	33	20.4%	36	21	1.5%
			4000	240	66	17.0%	40	15	1.1%
2-GATE SORTS			6000	216	98	15.3%	44	18	1.3%
DET	SORTS	FREQ%	8000	121	131	8.6%	48	8	0.6%
9	94	13.5%	10000	94	164	6.7%	52	6	0.4%
10	108	15.6%	12000	78	197	5.5%	56	7	0.5%
11	120	17.3%	14000	70	230	5.0%	60	10	0.7%
12	136	19.6%	16000	44	262	3.1%	64	3	0.2%
13	121	17.4%	18000	33	295	2.3%	68	4	0.3%
14	84	12.1%	20000	15	328	1.1%	72	5	0.4%
15	31	4.5%	22000	0	361	0.0%	76	3	0.2%
TOTAL	694		24000	0	393	0.0%	80	3	0.2%
			26000	0	426	0.0%	84	3	0.2%
			>28000	0	0	0.0%	>84	34	2.4%
			TOTAL	1,408			TOTAL	1,390	
EVENT TYPES		HPE	1,404	MPE	248	DISE	1,941		



WORK HISTORY - JA SOIL CLEANUP PLANT

09-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

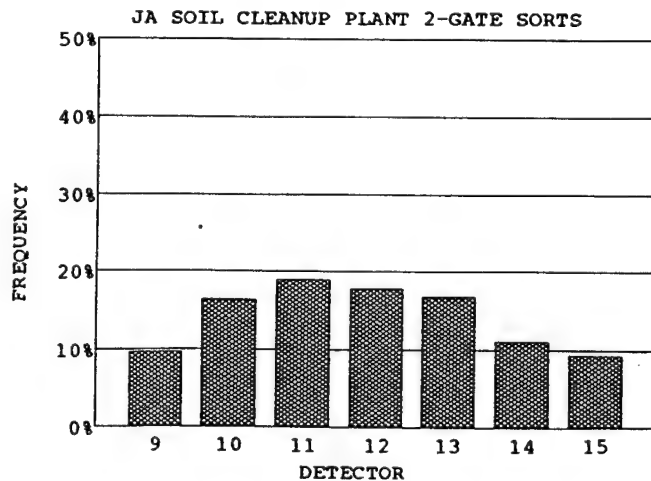
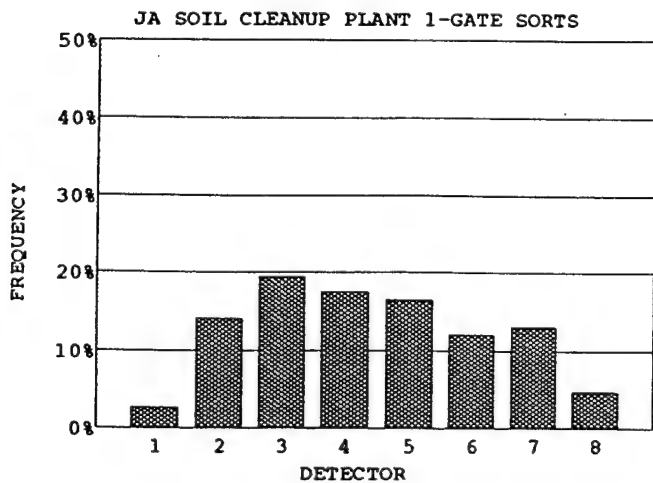
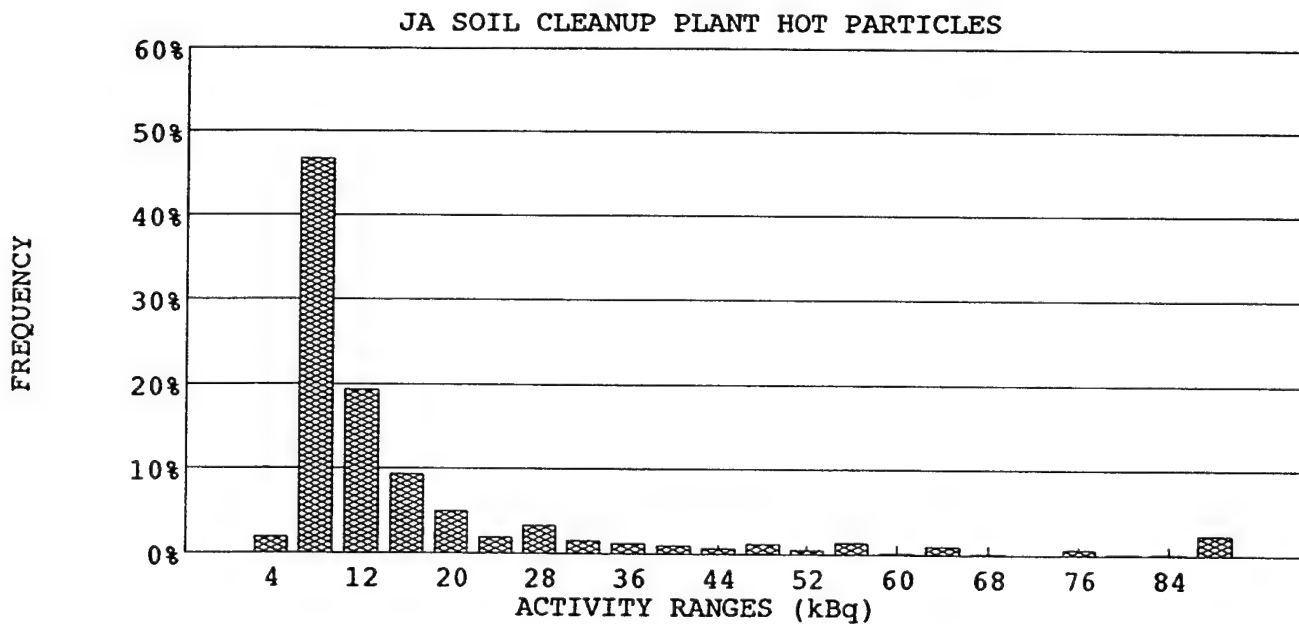
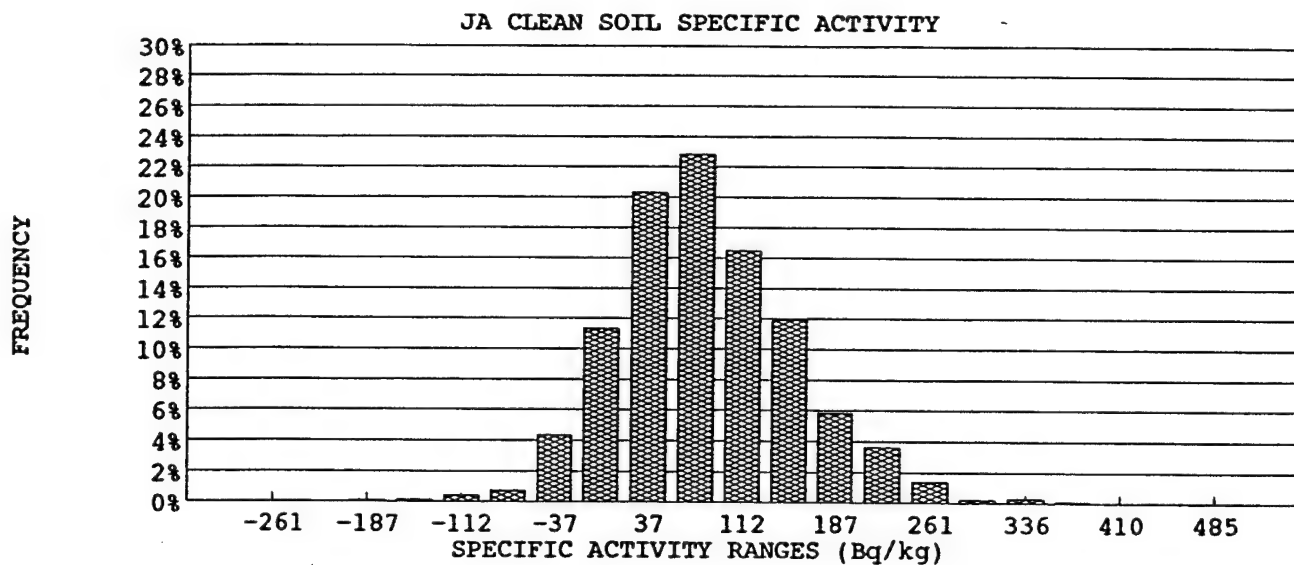
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.5 hr	9.5 hr	0.0 hr	0.0 hr	19.0 hr
SORTER START-UP	06:24	06:24	NA	NA	
START SOIL PROCESSING	06:36	06:36	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:10	16:11	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	7.5 hr	7.5 hr	0.0 hr	0.0 hr	15.0 hr
DOWN-TIME	2.0 hr	2.0 hr	0.0 hr	0.0 hr	4.1 hr
SYSTEM PAUSE	2.0 hr	2.0 hr	0.0 hr	0.0 hr	4.1 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
AUTHORIZED DELAY TIME	0.2 hr	0.2 hr	10.0 hr	10.0 hr	20.4 hr
PLANT PERFORMANCE					78.6%
PRODUCTIVITY					37.4%

PRODUCTIVITY

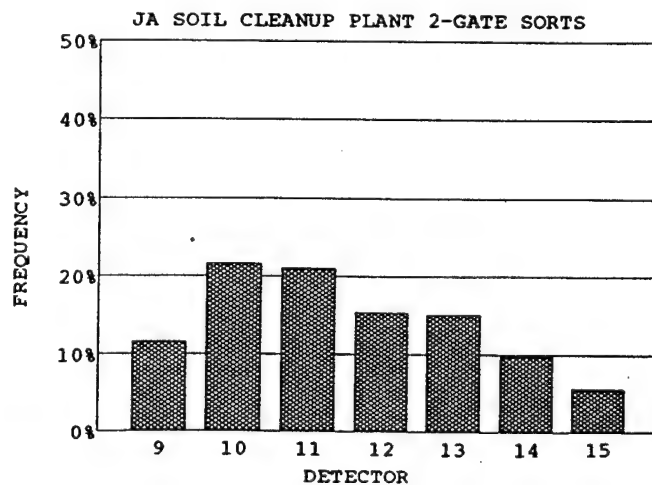
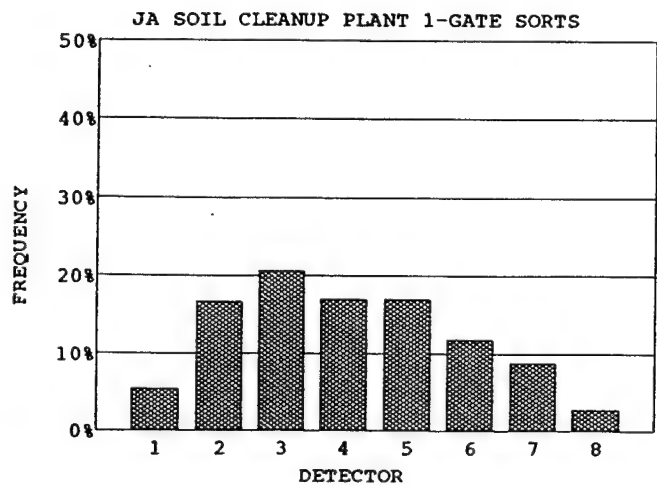
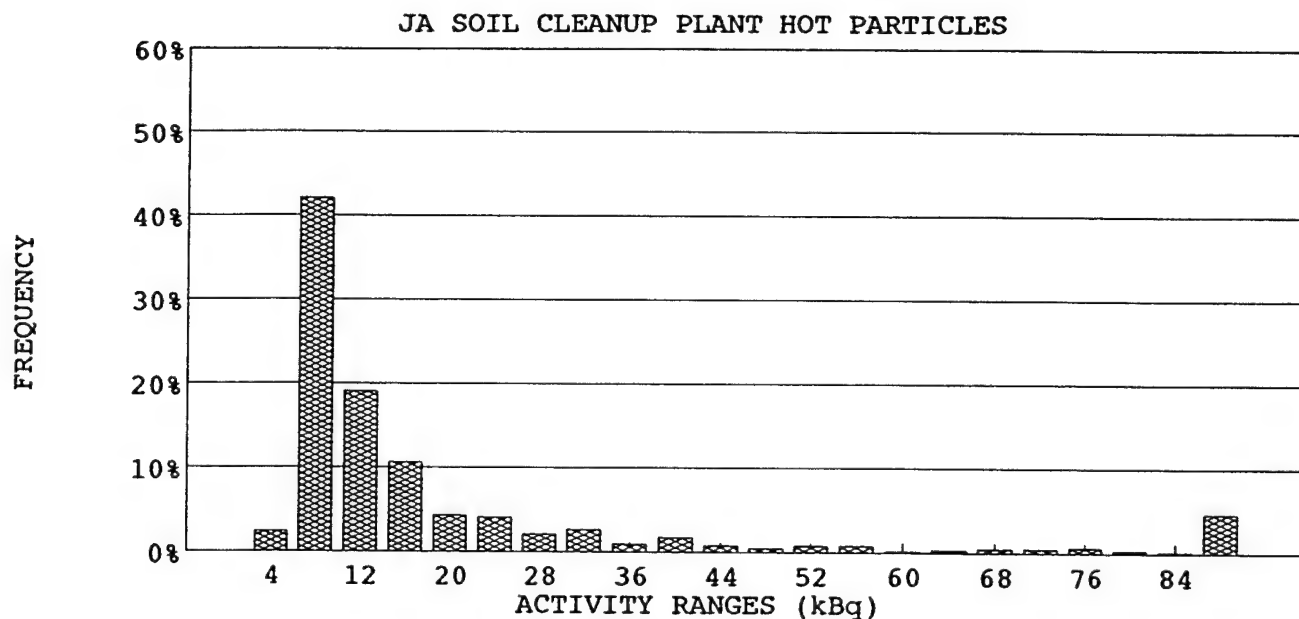
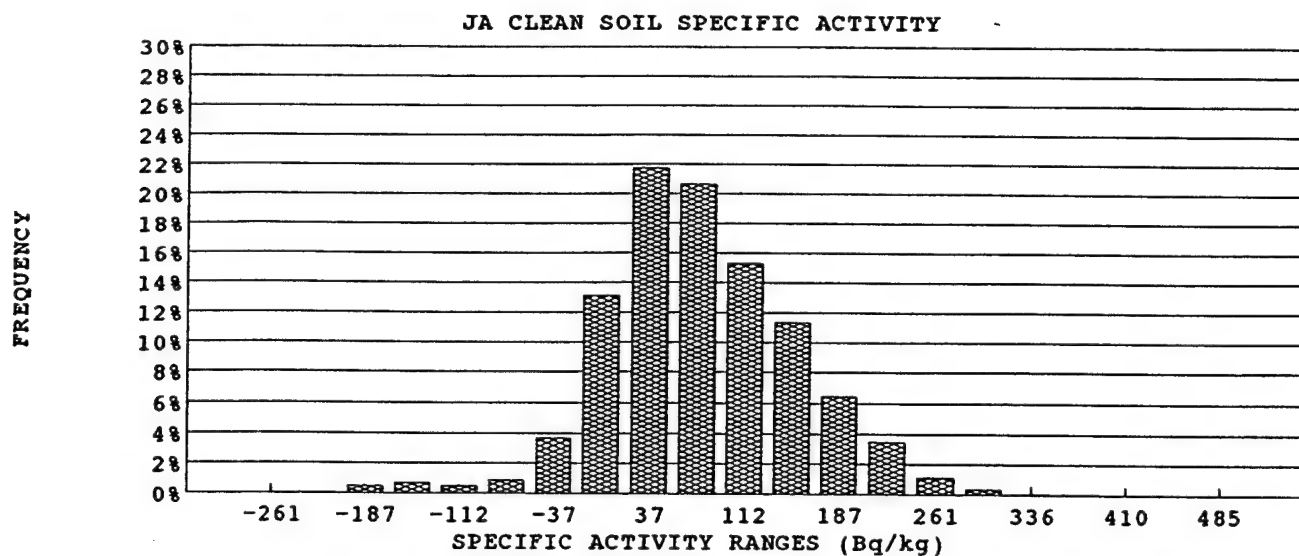
Date	09-Aug-94	Excused Delays for day (sorter-hrs)	20.4 hr
Contract day (from 6 Sep)	278	Excused delays for contract (sorter-hrs)	4,976 hr
Current Contract week	47	Excused delay days (plant-days)	124 days
		Excused delay months (plant-month)	4.78 months
Soil production for Day	144 MT		
Cumulative Soil Production for Week	305 MT	Percent of contract completed	55.8%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,723 MT
Since 6 Sep 93	54,161 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	55,752 MT		
Total Soil production for project	82,038 MT		

MT = metric tons

SORTER 1				09-Aug-94											
SORTER SOIL DENSITY		1.15 tons/m ³		BACKGROUND		0.68 ± 0.02 c/s									
SOIL		CONTAMINATED		CLEAN		TOTAL									
MASS TOTAL		0.5 tons		71.7 tons		72.2 tons									
MAXIMUM/SORT		53.6 kg		53.6 kg											
MINIMUM/SORT		0.7 kg		46.9 kg											
VOLUME IN-GROUND		0.4 yd ³		56.8 yd ³		57.2 yd ³									
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.3%													
ACTIVITY				DISPERSED + PARTICLE											
		PARTICLE		HOT		CLEAN									
TOTAL		11,763 kBq		2,584 kBq		4,782 kBq									
MAXIMUM/SORT		1,082 kBq		229 kBq		19 kBq									
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq									
SPECIFIC ACTIVITY				4,902 Bq/kg		67 Bq/kg									
SORTS															
20-SEC PROCESS PERIODS				1,347		UNEXP PAUSE									
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME TIME									
NONE (AD=0 & MD=0 & MND>0)				1,020		08:45 11:19									
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				326		10:08 15:24									
UNEXPLAINED RECORDS				0		10:42									
0<AD<1kBq & MD>0				8		10:55									
AD=0 & MD>0				0		11:04									
AD<0 & MD >0				0		11:08									
2-SEC COUNT PERIODS				13,470		14:34									
2-SEC RECORDS WITH SORTS				578		14:57									
2-SEC RECORDS WITHOUT SORTS				12,892											
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,925											
NONPROCESSING RECORDS (Test, calibration, etc)				20											
2-SEC SORT DETECTORS															
1 DET		422	73.01%	5 DET		2	0.35%								
2 DET		123	21.28%	6 DET		0	0.00%								
3 DET		24	4.15%	7 DET		0	0.00%								
4 DET		7	1.21%	8 DET		0	0.00%								
AVERAGE TIME BETWEEN 2-SEC SORTS				63.8 sec											
FREQUENCY DISTRIBUTIONS															
1-GATE SORTS		ACT_ND		NUM		SPEC_A		FREQ%		ACT_P		NUM		FREQ%	
DET SORTS		FREQ%		(Bq)		(#)		(Bq/kg)		(kBq)		(#)			
1 8		2.7%		-14000		0		-261 0.0%		4		11		1.9%	
2 42		14.1%		-12000		0		-224 0.0%		8		270		46.7%	
3 58		19.5%		-10000		1		-187 0.1%		12		112		19.4%	
4 52		17.4%		-8000		2		-149 0.1%		16		54		9.3%	
5 49		16.4%		-6000		6		-112 0.4%		20		29		5.0%	
6 36		12.1%		-4000		10		-75 0.7%		24		11		1.9%	
7 39		13.1%		-2000		59		-37 4.3%		28		19		3.3%	
8 14		4.7%		0		155		0 11.3%		32		9		1.6%	
TOTAL 298				2000		277		37 20.3%		36		7		1.2%	
				4000		312		75 22.8%		40		6		1.0%	
2-GATE SORTS				6000		225		112 16.5%		44		4		0.7%	
DET SORTS		FREQ%		8000		163		149 11.9%		48		7		1.2%	
9 27		9.6%		10000		80		187 5.9%		52		3		0.5%	
10 46		16.4%		12000		49		224 3.6%		56		8		1.4%	
11 53		18.9%		14000		19		261 1.4%		60		1		0.2%	
12 50		17.9%		16000		3		299 0.2%		64		6		1.0%	
13 47		16.8%		18000		4		336 0.3%		68		1		0.2%	
14 31		11.1%		20000		1		373 0.1%		72		0		0.0%	
15 26		9.3%		22000		0		410 0.0%		76		4		0.7%	
TOTAL 280				24000		0		448 0.0%		80		1		0.2%	
				26000		0		485 0.0%		84		1		0.2%	
				>28000		0		0 0.0%		>84		14		2.4%	
				TOTAL		1,366				TOTAL		578			
EVENT TYPES		HPE		586		MPE		128		DISE		77			



SORTER 2				09-Aug-94					
SORTER SOIL DENSITY		1.15 tons/m³		BACKGROUND		0.75 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.5 tons		71.7 tons		72.2 tons			
MAXIMUM/SORT		5.4 kg		53.6 kg					
MINIMUM/SORT		0.7 kg		48.2 kg					
VOLUME IN-GROUND		0.4 yd³		56.8 yd³		57.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.3%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		19,927 kBq		4,188 kBq		4,433 kBq			
MAXIMUM/SORT		3,413 kBq		1,216 kBq		18 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-10 kBq			
SPECIFIC ACTIVITY				7,875 Bq/kg		62 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,347		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,008		07:11 11:19			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				339		07:29 15:24			
UNEXPLAINED RECORDS				0		08:10			
0<AD<1kBq & MD>0				7		11:13			
AD=0 & MD>0				0		13:31			
AD<0 & MD >0				0		13:37			
2-SEC COUNT PERIODS				13,470		13:47			
2-SEC RECORDS WITH SORTS				649					
2-SEC RECORDS WITHOUT SORTS				12,821					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,996					
NONPROCESSING RECORDS (Test, calibration, etc)				20					
2-SEC SORT DETECTORS									
1 DET		464	71.49%	5 DET	2	0.31%			
2 DET		147	22.65%	6 DET	0	0.00%			
3 DET		27	4.16%	7 DET	0	0.00%			
4 DET		9	1.39%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				58.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	18	5.5%	-14000	0	-261	0.0%	4	16	2.5%
2	55	16.7%	-12000	1	-224	0.1%	8	273	42.1%
3	68	20.6%	-10000	7	-187	0.5%	12	124	19.1%
4	56	17.0%	-8000	10	-149	0.7%	16	69	10.6%
5	56	17.0%	-6000	7	-112	0.5%	20	28	4.3%
6	39	11.8%	-4000	12	-75	0.9%	24	27	4.2%
7	29	8.8%	-2000	50	-37	3.7%	28	14	2.2%
8	9	2.7%	0	179	0	13.1%	32	17	2.6%
TOTAL	330		2000	297	37	21.7%	36	6	0.9%
			4000	282	75	20.6%	40	11	1.7%
			6000	209	112	15.3%	44	5	0.8%
2-GATE SORTS			8000	155	149	11.3%	48	3	0.5%
DET	SORTS	FREQ%	10000	88	187	6.4%	52	5	0.8%
9	37	11.6%	12000	47	224	3.4%	56	5	0.8%
10	69	21.6%	14000	16	261	1.2%	60	1	0.2%
11	67	21.0%	16000	5	299	0.4%	64	2	0.3%
12	49	15.4%	18000	1	336	0.1%	68	3	0.5%
13	48	15.0%	20000	1	373	0.1%	72	3	0.5%
14	31	9.7%	22000	0	410	0.0%	76	4	0.6%
15	18	5.6%	24000	0	448	0.0%	80	2	0.3%
TOTAL	319		26000	0	485	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	30	4.6%
			TOTAL	1,367			TOTAL	649	
EVENT TYPES		HPE	668	MPE	131	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

10-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

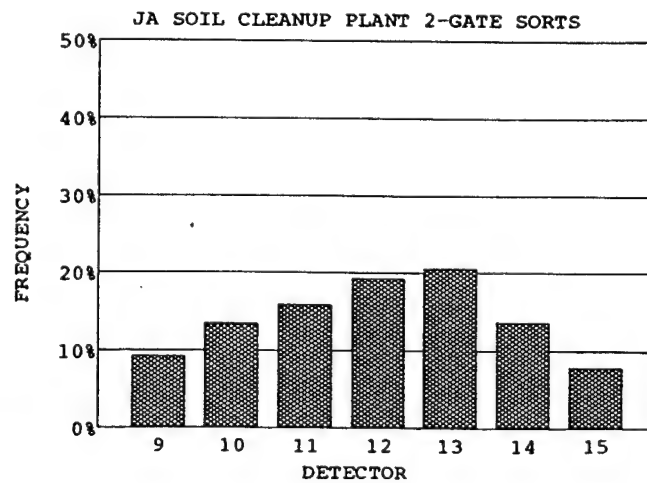
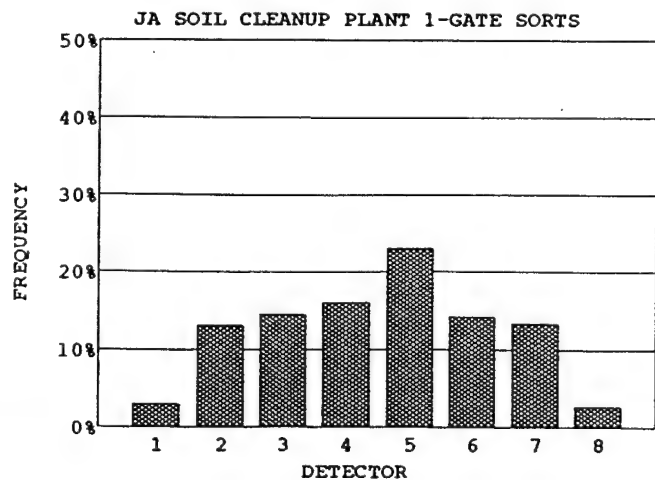
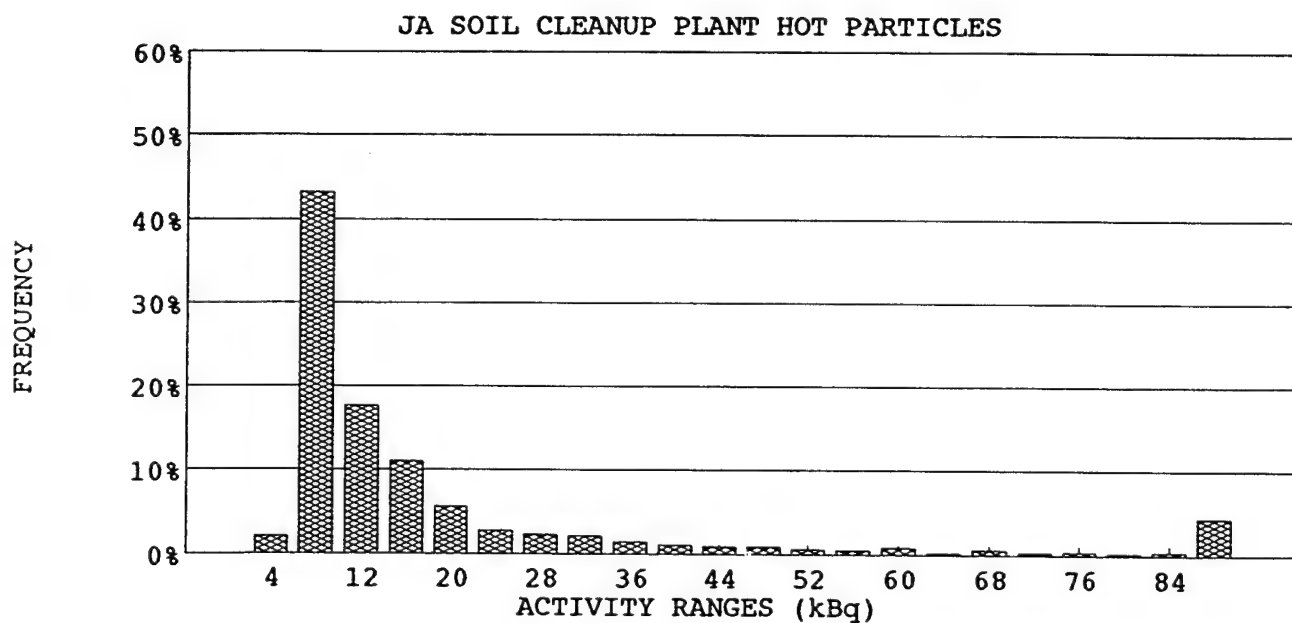
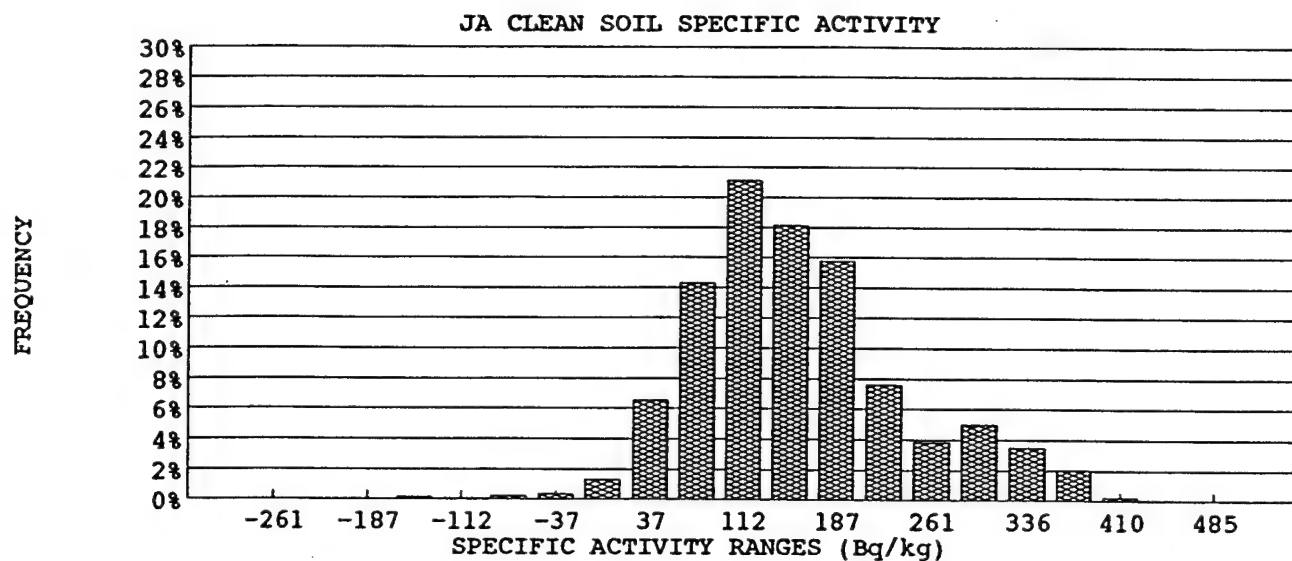
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.5 hr	9.5 hr	0.0 hr	0.0 hr	18.9 hr
SORTER START-UP	06:28	06:28	NA	NA	
START SOIL PROCESSING	06:33	06:33	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:10	16:08	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	8.5 hr	8.4 hr	0.0 hr	0.0 hr	16.9 hr
DOWN-TIME	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.0 hr
SYSTEM PAUSE	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.3 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.1 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					89.3%
PRODUCTIVITY					42.2%

PRODUCTIVITY

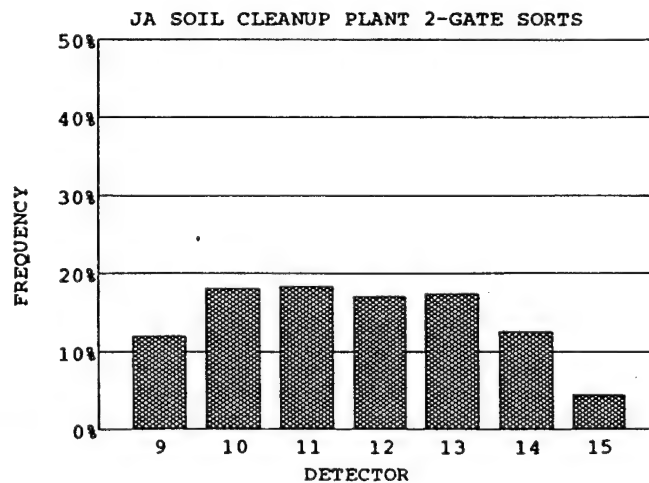
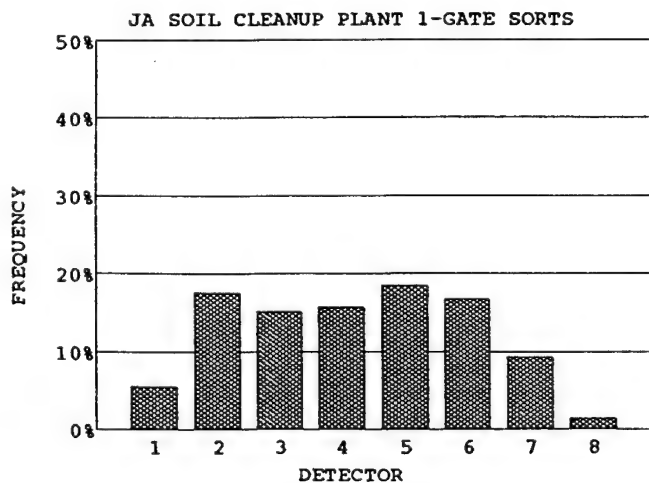
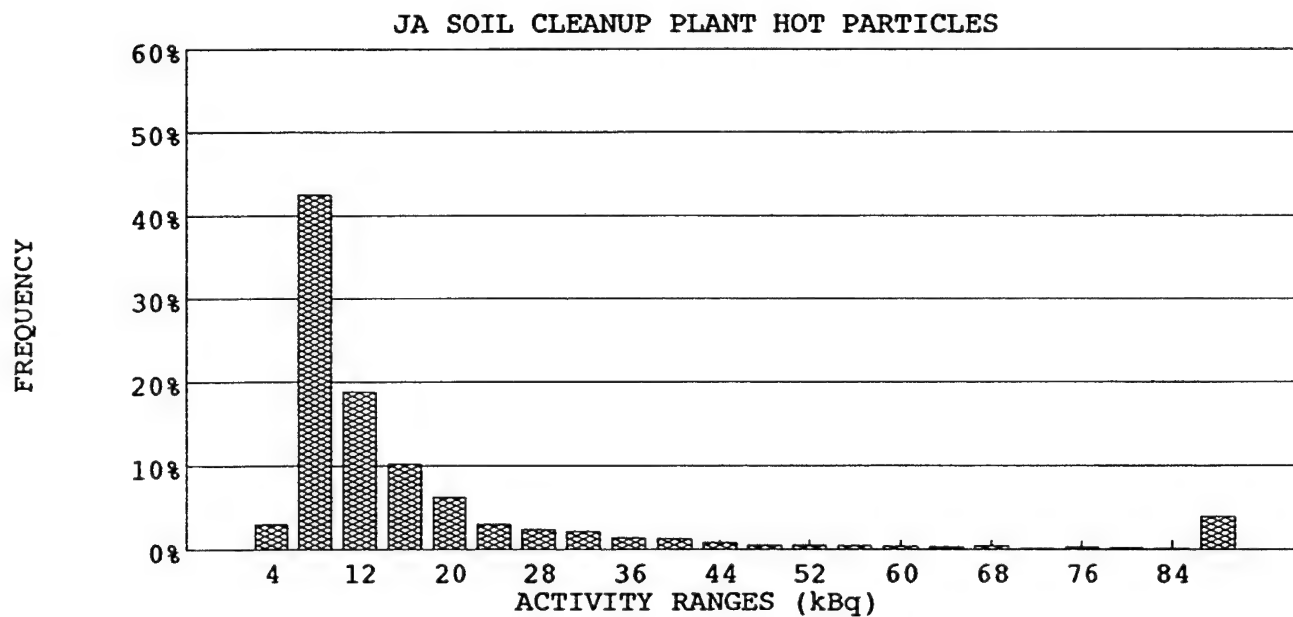
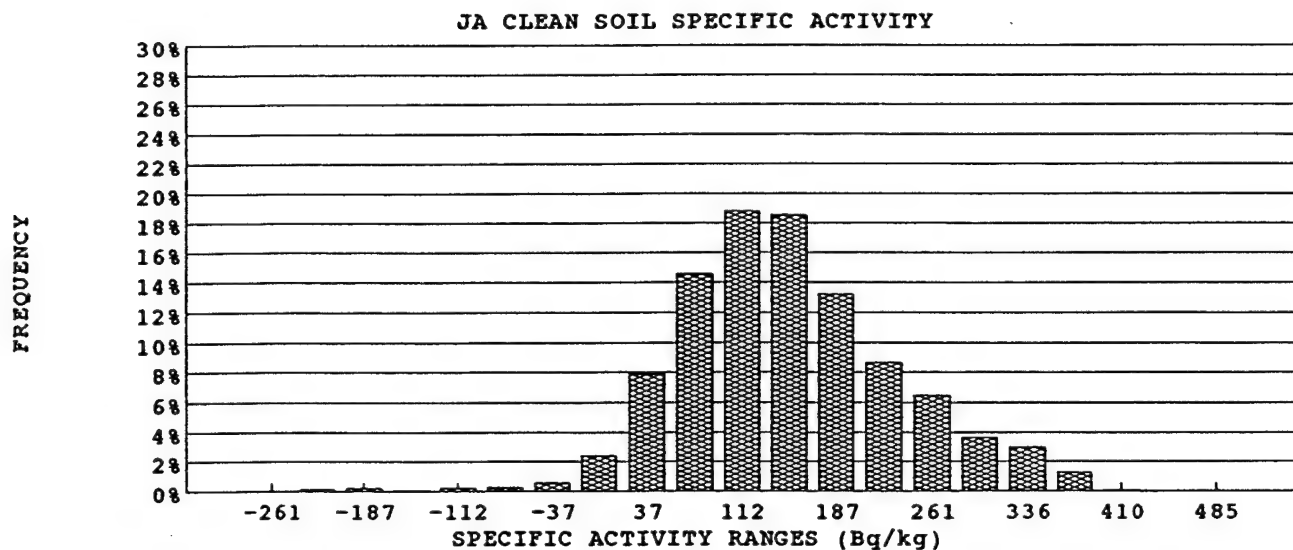
Date	10-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	279	Excused delays for contract (sorter-hrs)	4,996 hr
Current Contract week	47	Excused delay days (plant-days)	125 days
		Excused delay months (plant-month)	4.80 months
Soil production for Day	163 MT		
Cumulative Soil Production for Week	468 MT	Percent of contract completed	55.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,727 MT
Since 6 Sep 93	54,323 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	55,914 MT		
Total Soil production for project	82,201 MT		

MT = metric tons

SORTER 1				10-Aug-94					
SORTER SOIL DENSITY		1.15 tons/m ³		BACKGROUND		0.69 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		3.9 tons		77.8 tons		81.7 tons			
MAXIMUM/SORT		53.6 kg		53.6 kg					
MINIMUM/SORT		0.7 kg		44.2 kg					
VOLUME IN-GROUND		3.1 yd ³		61.7 yd ³		64.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.2%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		51,793 kBq		12,077 kBq		10,820 kBq			
MAXIMUM/SORT		2,186 kBq		833 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				3,074 Bq/kg		139 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,525		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				47		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				768		10:49 11:20			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				710		10:50			
UNEXPLAINED RECORDS				0		11:14			
0<AD<1kBq & MD>0				7		13:11			
AD=0 & MD>0				0		14:42			
AD<0 & MD >0				0		15:26			
2-SEC COUNT PERIODS				15,250		15:59			
2-SEC RECORDS WITH SORTS				1,928					
2-SEC RECORDS WITHOUT SORTS				13,322					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,453					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		1,366	70.85%	5 DET		4	0.21%		
2 DET		443	22.98%	6 DET		0	0.00%		
3 DET		93	4.82%	7 DET		0	0.00%		
4 DET		22	1.14%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				22.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	29	3.0%	-14000	0	-261	0.0%	4	2.1%	
2	127	13.1%	-12000	0	-224	0.0%	8	43.3%	
3	141	14.6%	-10000	0	-187	0.0%	12	17.6%	
4	155	16.0%	-8000	2	-149	0.1%	16	11.0%	
5	223	23.1%	-6000	1	-112	0.1%	20	5.6%	
6	137	14.2%	-4000	3	-75	0.2%	24	2.8%	
7	129	13.3%	-2000	5	-37	0.3%	28	2.3%	
8	26	2.7%	0	19	0	1.3%	32	2.1%	
TOTAL	967		2000	97	37	6.5%	36	1.5%	
			4000	212	75	14.3%	40	1.1%	
2-GATE SORTS		6000	313	112	21.1%	44	18	0.9%	
DET	SORTS	FREQ%	8000	269	149	18.1%	48	18	0.9%
9	89	9.3%	10000	234	187	15.8%	52	12	0.6%
10	129	13.4%	12000	113	224	7.6%	56	11	0.6%
11	153	15.9%	14000	57	261	3.8%	60	16	0.8%
12	185	19.3%	16000	74	299	5.0%	64	5	0.3%
13	198	20.6%	18000	52	336	3.5%	68	12	0.6%
14	131	13.6%	20000	30	373	2.0%	72	6	0.3%
15	76	7.9%	22000	3	410	0.2%	76	7	0.4%
TOTAL	961		24000	0	448	0.0%	80	5	0.3%
			26000	0	485	0.0%	84	8	0.4%
			>28000	0	0	0.0%	>84	85	4.4%
			TOTAL	1,484			TOTAL	1,928	
EVENT TYPES		HPE	1,923	MPE	437	DISE	3,514		



SORTER 2				10-Aug-94					
SORTER SOIL DENSITY		1.15 tons/m ³		BACKGROUND		0.76 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		7.6 tons		73.5 tons		81.1 tons			
MAXIMUM/SORT		53.6 kg		53.6 kg					
MINIMUM/SORT		0.7 kg		45.5 kg					
VOLUME IN-GROUND		6.0 yd ³		58.3 yd ³		64.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		90.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		60,346 kBq		15,754 kBq		9,833 kBq			
MAXIMUM/SORT		4,766 kBq		1,679 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				2,080 Bq/kg		134 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,513		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				116		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				701		07:31 11:20			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				695		09:14			
UNEXPLAINED RECORDS				1		09:25			
0<AD<1kBq & MD>0				4		11:11			
AD=0 & MD>0				1		16:01			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				15,130					
2-SEC RECORDS WITH SORTS				2,209					
2-SEC RECORDS WITHOUT SORTS				12,921					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,722					
NONPROCESSING RECORDS (Test, calibration, etc)				11					
2-SEC SORT DETECTORS									
1 DET		1,574	71.25%	5 DET	6	0.27%			
2 DET		519	23.49%	6 DET	0	0.00%			
3 DET		90	4.07%	7 DET	0	0.00%			
4 DET		20	0.91%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				19.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	61	5.5%	-14000	0	-261	0.0%	4	68	3.1%
2	195	17.6%	-12000	2	-224	0.1%	8	939	42.5%
3	168	15.1%	-10000	3	-187	0.2%	12	416	18.8%
4	175	15.8%	-8000	1	-149	0.1%	16	226	10.2%
5	205	18.5%	-6000	3	-112	0.2%	20	140	6.3%
6	186	16.8%	-4000	4	-75	0.3%	24	68	3.1%
7	103	9.3%	-2000	8	-37	0.6%	28	53	2.4%
8	16	1.4%	0	34	0	2.4%	32	48	2.2%
TOTAL	1,109		2000	111	37	7.9%	36	32	1.4%
			4000	205	75	14.6%	40	29	1.3%
2-GATE SORTS			6000	265	112	18.8%	44	20	0.9%
DET	SORTS	FREQ%	8000	261	149	18.5%	48	13	0.6%
9	132	12.0%	10000	186	187	13.2%	52	13	0.6%
10	199	18.1%	12000	122	224	8.7%	56	10	0.5%
11	202	18.4%	14000	91	261	6.5%	60	9	0.4%
12	188	17.1%	16000	51	299	3.6%	64	8	0.4%
13	192	17.5%	18000	42	336	3.0%	68	11	0.5%
14	138	12.5%	20000	18	373	1.3%	72	3	0.1%
15	49	4.5%	22000	1	410	0.1%	76	8	0.4%
TOTAL	1,100		24000	0	448	0.0%	80	5	0.2%
			26000	0	485	0.0%	84	3	0.1%
			>28000	0	0	0.0%	>84	87	3.9%
			TOTAL	1,408			TOTAL	2,209	
EVENT TYPES		HPE	2,168	MPE	614	DISE	8,535		



WORK HISTORY - JA SOIL CLEANUP PLANT

11-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

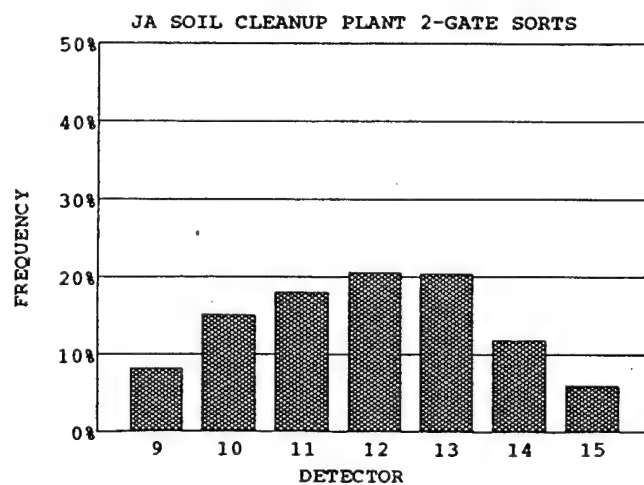
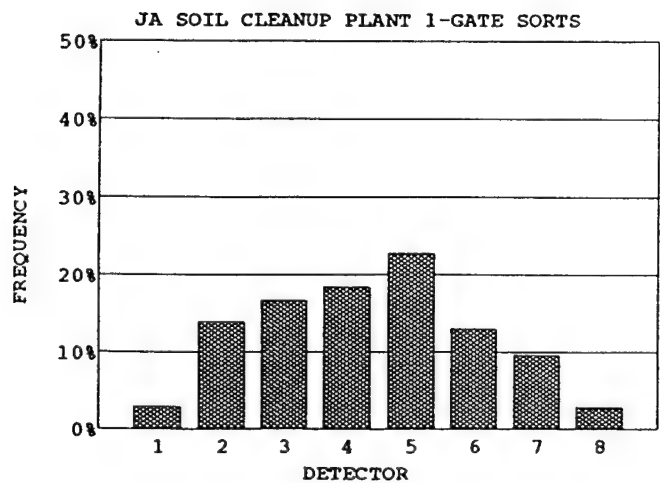
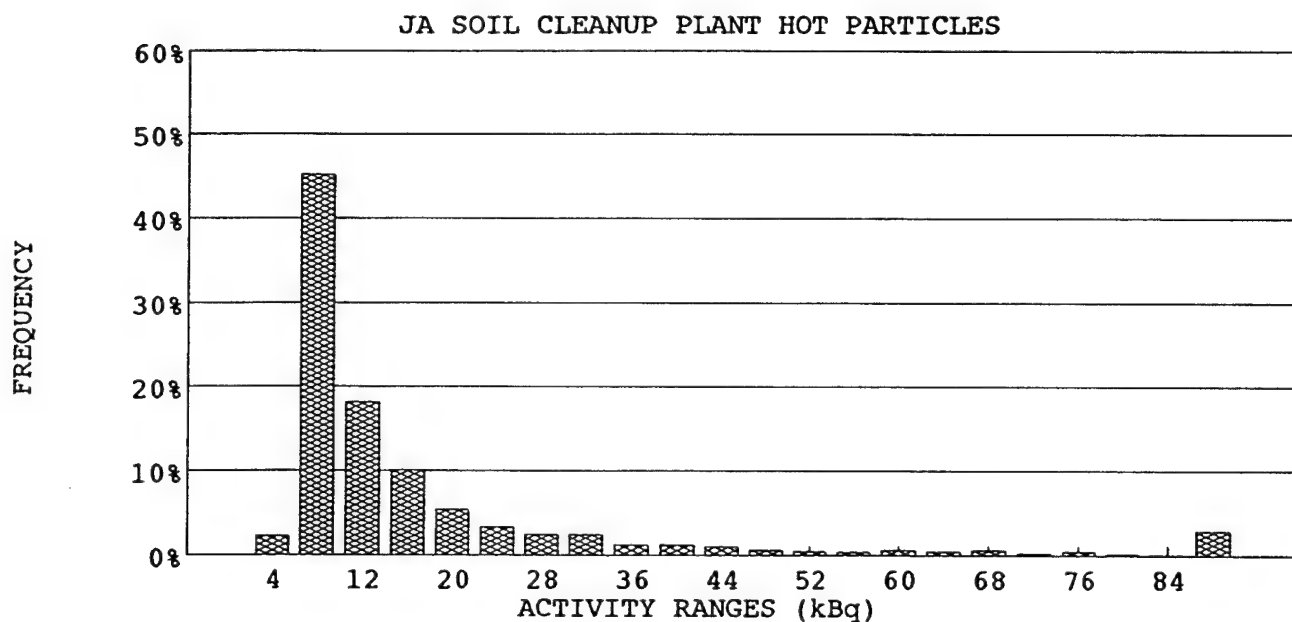
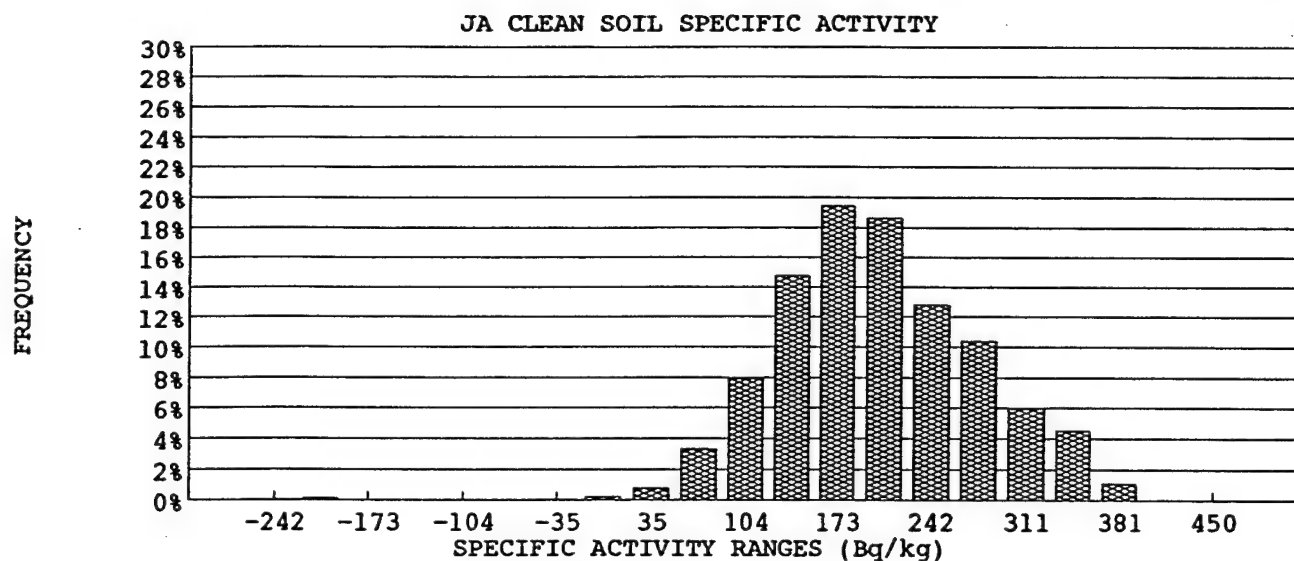
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.1 hr	9.1 hr	0.0 hr	0.0 hr	18.3 hr
SORTER START-UP	06:28	06:28	NA	NA	
START SOIL PROCESSING	06:35	06:36	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
SORTER SHUT-DOWN	16:06	16:06	NA	NA	
END SOIL PROCESSING	16:06	16:05	NA	NA	
TIME REQUIRED TO SHUT DOWN	-0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	8.5 hr	8.4 hr	0.0 hr	0.0 hr	16.9 hr
DOWN-TIME	0.7 hr	0.7 hr	0.0 hr	0.0 hr	1.3 hr
SYSTEM PAUSE	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.1 hr
SORTER NONAVAILABLE TIME	0.9 hr	0.9 hr	10.0 hr	10.0 hr	21.7 hr
AUTHORIZED DELAY TIME	0.4 hr	0.4 hr	10.0 hr	10.0 hr	20.8 hr
PLANT PERFORMANCE					92.6%
PRODUCTIVITY					42.3%

PRODUCTIVITY

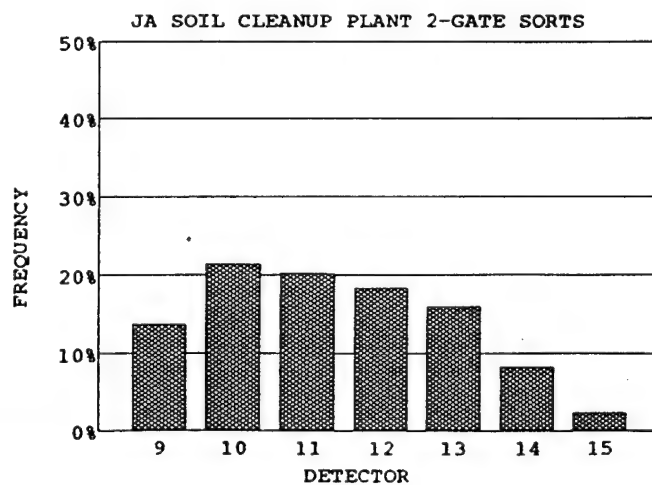
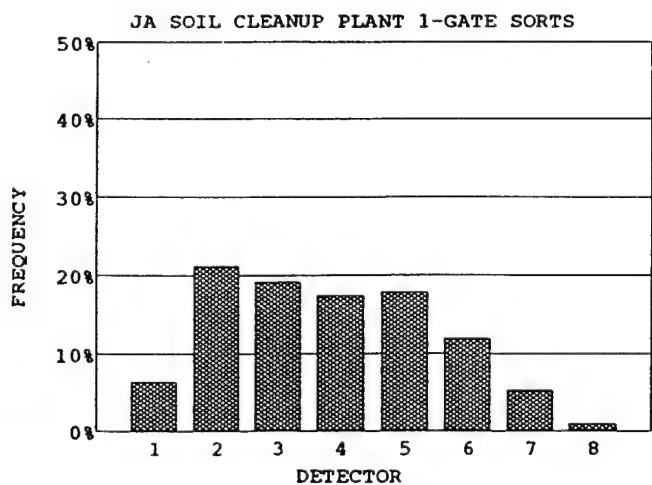
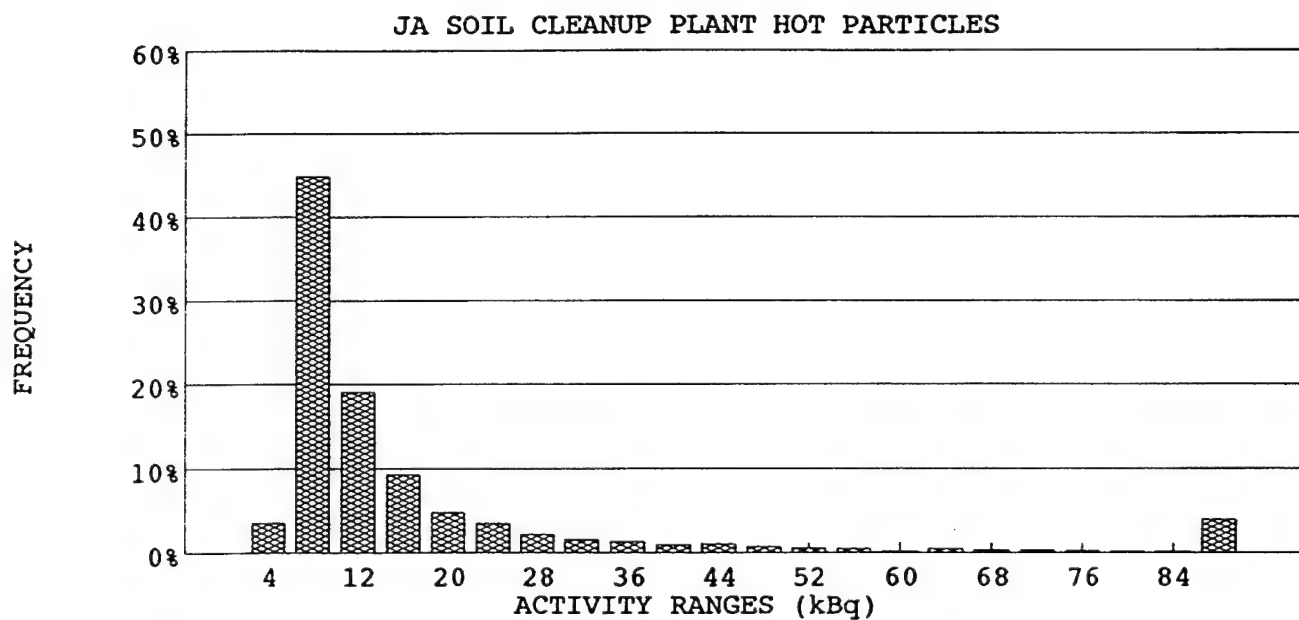
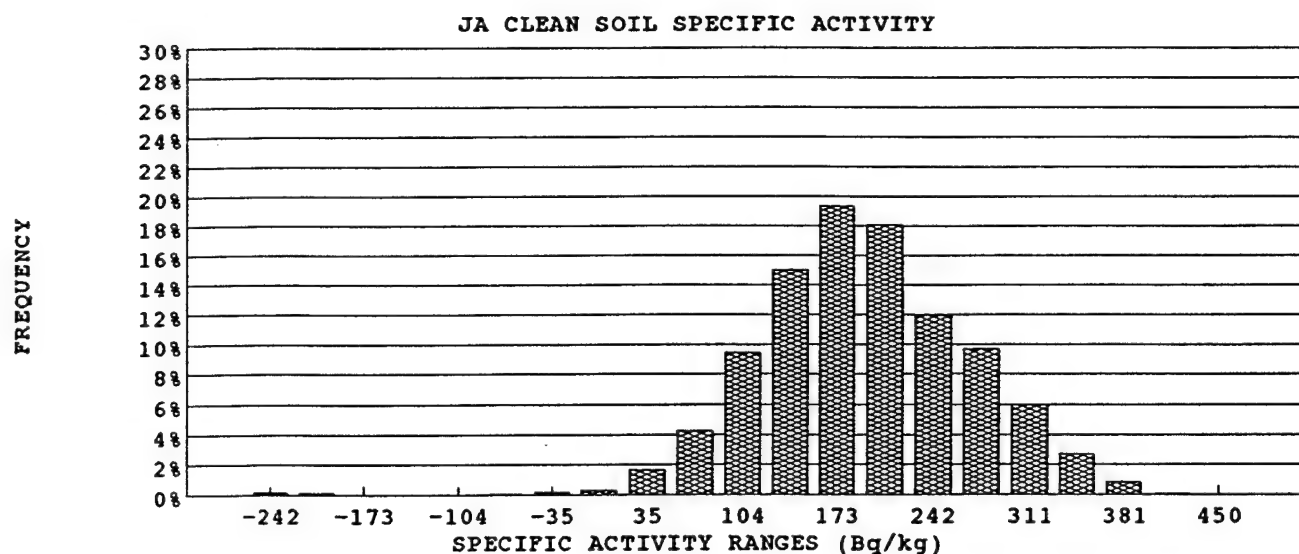
Date	11-Aug-94	Excused Delays for day (sorter-hrs)	20.8 hr
Contract day (from 6 Sep)	280	Excused delays for contract (sorter-hrs)	5,017 hr
Current Contract week	47	Excused delay days (plant-days)	125 days
		Excused delay months (plant-month)	4.82 months
Soil production for Day	175 MT		
Cumulative Soil Production for Week	642 MT	Percent of contract completed	56.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,750 MT
Since 6 Sep 93	54,498 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	56,089 MT		
Total Soil production for project	82,376 MT		

MT = metric tons

SORTER 1				11-Aug-94					
SORTER SOIL DENSITY		1.24 tons/m ³		BACKGROUND		0.74 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				4.4 tons		83.2 tons		87.5 tons	
MAXIMUM/SORT				57.8 kg		57.8 kg			
MINIMUM/SORT				0.7 kg		46.2 kg			
VOLUME IN-GROUND				3.5 yd ³		65.9 yd ³		69.4 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				95.0%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE		HOT	
TOTAL				74,600 kBq		16,721 kBq		16,002 kBq	
MAXIMUM/SORT				1,345 kBq		580 kBq		22 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-3 kBq	
SPECIFIC ACTIVITY						3,832 Bq/kg		192 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,525		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				24				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				377				07:38 11:19	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,124				09:19	
UNEXPLAINED RECORDS				0				11:18	
0<AD<1kBq & MD>0				4				13:26	
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS						15,250			
2-SEC RECORDS WITH SORTS				3,675					
2-SEC RECORDS WITHOUT SORTS				11,575					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						5,200			
NONPROCESSING RECORDS (Test, calibration, etc)						2			
2-SEC SORT DETECTORS									
1 DET		2,636	71.73%	5 DET		9	0.24%		
2 DET		825	22.45%	6 DET		0	0.00%		
3 DET		177	4.82%	7 DET		0	0.00%		
4 DET		28	0.76%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				11.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND		NUM		SPEC_A		FREQ%	
DET SORTS		FREQ%		(Bq)		FREQ%		ACT_P	
				(#)		(Bq/kg)		(kBq)	
1 54		2.9%		-14000		0		-242 0.0%	
2 255		13.8%		-12000		2		-208 0.1%	
3 307		16.7%		-10000		0		-173 0.0%	
4 340		18.4%		-8000		0		-138 0.0%	
5 419		22.7%		-6000		0		-104 0.0%	
6 239		13.0%		-4000		0		-69 0.0%	
7 176		9.5%		-2000		1		-35 0.1%	
8 53		2.9%		0		3		0 0.2%	
TOTAL 1,843				2000		12		35 0.8%	
				4000		50		69 3.3%	
2-GATE SORTS				6000		119		104 7.9%	
DET SORTS		FREQ%		8000		222		138 14.8%	
9 150		8.2%		-10000		292		173 19.4%	
10 276		15.1%		12000		280		208 18.6%	
11 330		18.0%		14000		192		242 12.8%	
12 377		20.6%		16000		156		277 10.4%	
13 375		20.5%		18000		90		311 6.0%	
14 215		11.7%		20000		68		346 4.5%	
15 109		5.9%		22000		16		381 1.1%	
TOTAL 1,832				24000		0		415 0.0%	
				26000		0		450 0.0%	
				>28000		0		0 0.0%	
				TOTAL		1,503		TOTAL	
EVENT TYPES		HPE		3,628		MPE		682 DISE	
								1,765	



SORTER 2				11-Aug-94					
SORTER SOIL DENSITY		1.24 tons/m³		BACKGROUND		0.83 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		4.3 tons		83.0 tons		87.2 tons			
MAXIMUM/SORT		57.8 kg		57.8 kg					
MINIMUM/SORT		0.7 kg		47.5 kg					
VOLUME IN-GROUND		3.4 yd³		65.8 yd³		69.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.1%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		106,497 kBq		23,155 kBq		15,283 kBq			
MAXIMUM/SORT		5,552 kBq		2,493 kBq		22 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				5,432 Bq/kg		184 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,520		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				18		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				345		06:46 11:19			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,159		08:19			
UNEXPLAINED RECORDS				(2)		09:57			
0<AD<1kBq & MD>0				5		11:12			
AD=0 & MD>0				0		14:27			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				15,200					
2-SEC RECORDS WITH SORTS				4,038					
2-SEC RECORDS WITHOUT SORTS				11,162					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,558					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		2,920	72.31%	5 DET		8	0.20%		
2 DET		890	22.04%	6 DET		0	0.00%		
3 DET		181	4.48%	7 DET		1	0.02%		
4 DET		39	0.97%	8 DET		1	0.02%		
AVERAGE TIME BETWEEN 2-SEC SORTS				10.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	129	6.4%	-14000	3	-242	0.2%	4	146	3.6%
2	429	21.2%	-12000	2	-208	0.1%	8	1,811	44.8%
3	388	19.2%	-10000	0	-173	0.0%	12	771	19.1%
4	352	17.4%	-8000	0	-138	0.0%	16	375	9.3%
5	360	17.8%	-6000	0	-104	0.0%	20	196	4.9%
6	240	11.9%	-4000	1	-69	0.1%	24	141	3.5%
7	106	5.2%	-2000	3	-35	0.2%	28	90	2.2%
8	19	0.9%	0	5	0	0.3%	32	65	1.6%
TOTAL	2,023		2000	25	35	1.7%	36	53	1.3%
			4000	64	69	4.2%	40	39	1.0%
2-GATE SORTS			6000	143	104	9.5%	44	43	1.1%
DET	SORTS	FREQ%	8000	226	138	15.0%	48	30	0.7%
9	275	13.6%	10000	292	173	19.4%	52	22	0.5%
10	431	21.4%	12000	273	208	18.1%	56	19	0.5%
11	406	20.1%	14000	181	242	12.0%	60	9	0.2%
12	370	18.4%	16000	146	277	9.7%	64	18	0.4%
13	321	15.9%	18000	90	311	6.0%	68	14	0.3%
14	165	8.2%	20000	41	346	2.7%	72	13	0.3%
15	47	2.3%	22000	13	381	0.9%	76	10	0.2%
TOTAL	2,015		24000	1	415	0.1%	80	6	0.1%
			26000	0	450	0.0%	84	6	0.1%
			>28000	0	0	0.0%	>84	161	4.0%
			TOTAL	1,509			TOTAL	4,038	
EVENT TYPES		HPE	3,995	MPE	641	DISE	1,310		



WORK HISTORY - JA SOIL CLEANUP PLANT

12-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

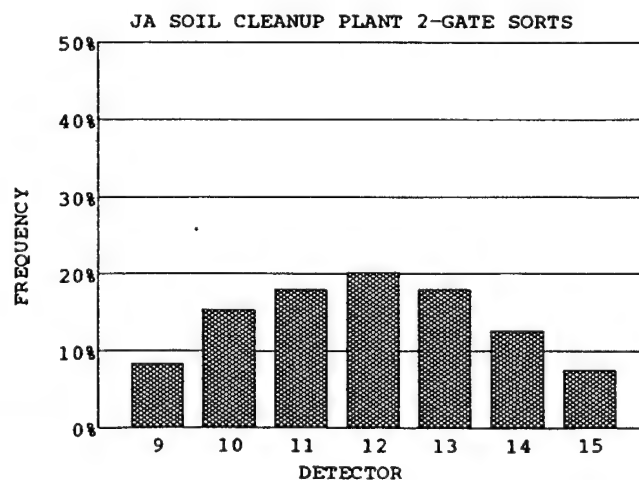
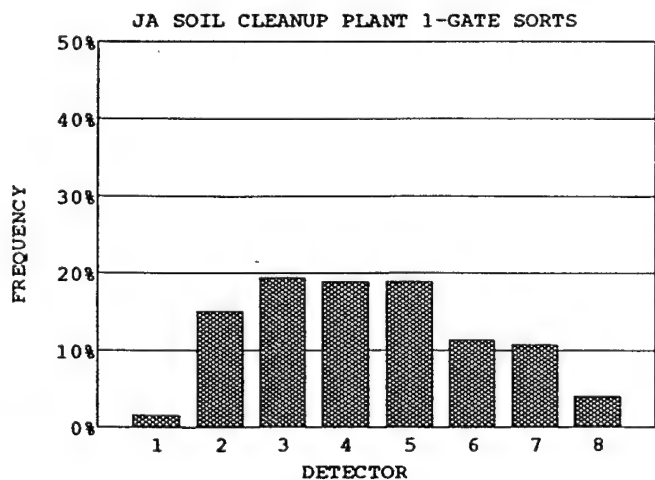
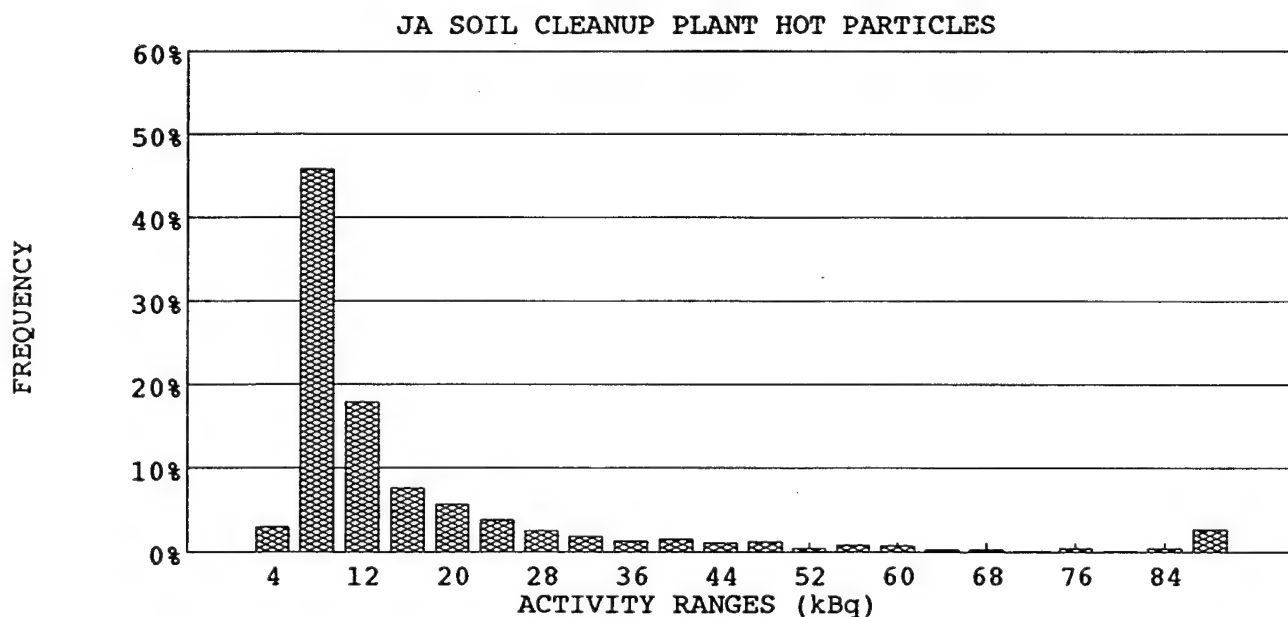
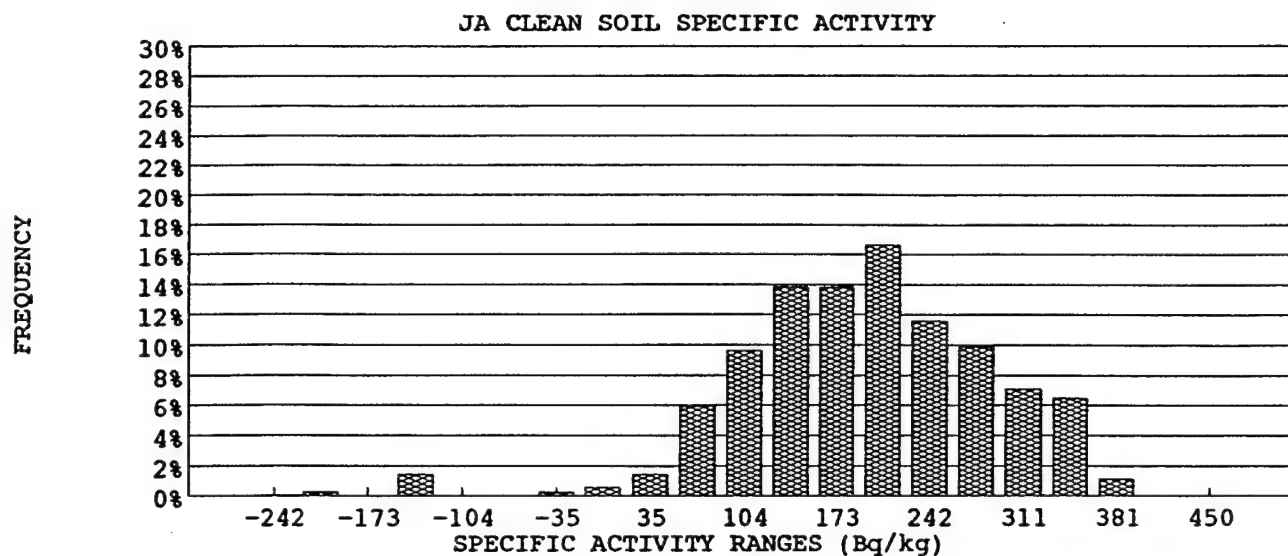
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	3.0 hr	3.0 hr	0.0 hr	0.0 hr	6.0 hr
SORTER START-UP	13:19	13:19	NA	NA	
START SOIL PROCESSING	13:24	13:23	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:05	16:05	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	2.5 hr	2.5 hr	0.0 hr	0.0 hr	5.0 hr
DOWN-TIME	0.5 hr	0.5 hr	0.0 hr	0.0 hr	1.1 hr
SYSTEM PAUSE	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER NONAVAILABLE TIME	7.0 hr	7.0 hr	10.0 hr	10.0 hr	34.0 hr
AUTHORIZED DELAY TIME	6.7 hr	6.7 hr	10.0 hr	10.0 hr	33.4 hr
PLANT PERFORMANCE					82.4%
PRODUCTIVITY					12.4%

PRODUCTIVITY

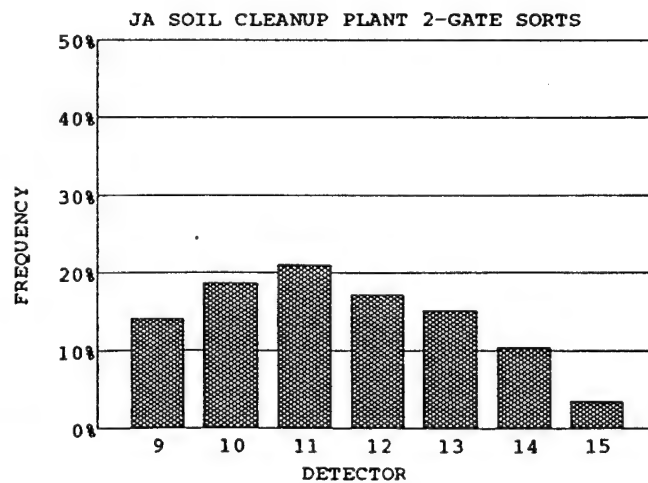
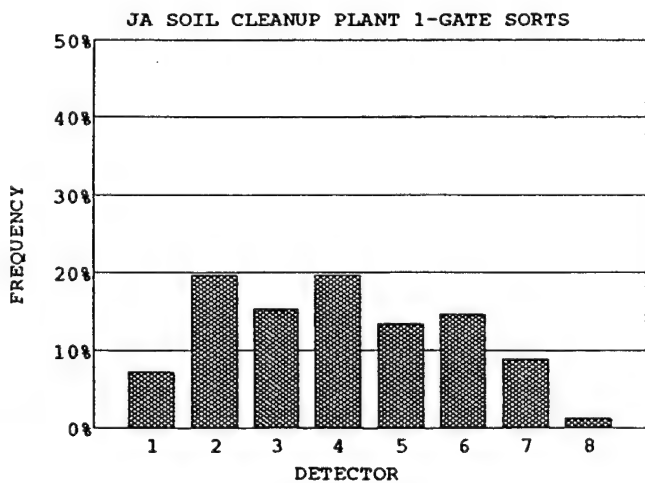
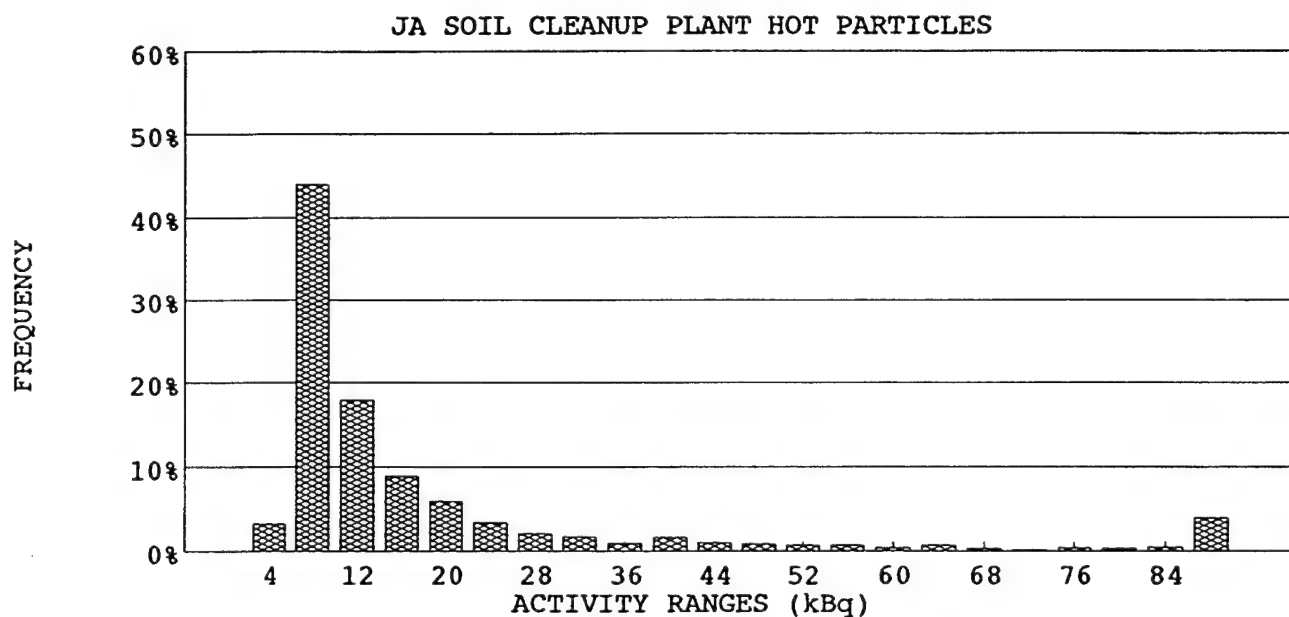
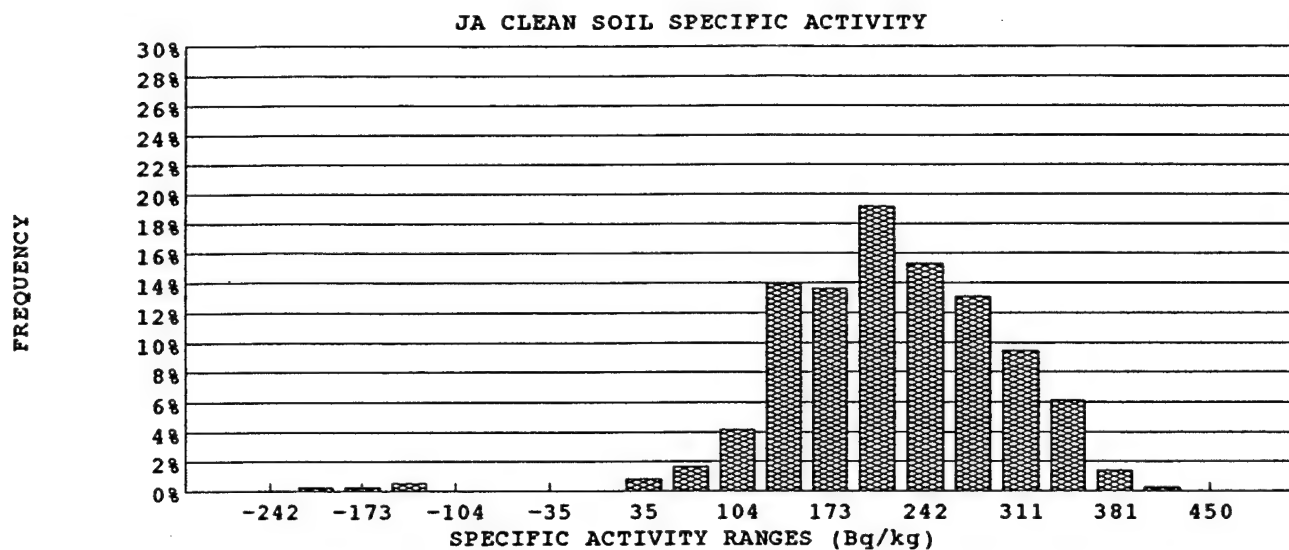
Date	12-Aug-94	Excused Delays for day (sorter-hrs)	33.4 hr
Contract day (from 6 Sep)	281	Excused delays for contract (sorter-hrs)	5,050 hr
Current Contract week	47	Excused delay days (plant-days)	126 days
		Excused delay months (plant-month)	4.86 months
Soil production for Day	48 MT		
Cumulative Soil Production for Week	690 MT	Percent of contract completed	56.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,746 MT
Since 6 Sep 93	54,546 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	56,137 MT		
Total Soil production for project	82,424 MT		

MT = metric tons

SORTER 1				12-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m³		BACKGROUND		0.71 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		5.6 tons		18.1 tons		23.7 tons			
MAXIMUM/SORT		57.8 kg		57.8 kg					
MINIMUM/SORT		0.6 kg		43.2 kg					
VOLUME IN-GROUND		4.4 yd³		14.4 yd³		18.8 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		76.4%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		19,824 kBq		7,008 kBq		3,638 kBq			
MAXIMUM/SORT		1,214 kBq		452 kBq		21 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-14 kBq			
SPECIFIC ACTIVITY				1,253 Bq/kg		201 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				444		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				93		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				118		None 14:13			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				298					
UNEXPLAINED RECORDS (65)									
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,440					
2-SEC RECORDS WITH SORTS				1,035					
2-SEC RECORDS WITHOUT SORTS				3,405					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,479					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		729	70.43%	5 DET		2	0.19%		
2 DET		248	23.96%	6 DET		0	0.00%		
3 DET		48	4.64%	7 DET		0	0.00%		
4 DET		8	0.77%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				12.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	8	1.5%	-14000	0	-242	0.0%	4	31	3.0%
2	78	15.0%	-12000	1	-208	0.3%	8	474	45.8%
3	101	19.5%	-10000	0	-173	0.0%	12	185	17.9%
4	98	18.9%	-8000	5	-138	1.4%	16	79	7.6%
5	98	18.9%	-6000	0	-104	0.0%	20	59	5.7%
6	59	11.4%	-4000	0	-69	0.0%	24	40	3.9%
7	56	10.8%	-2000	1	-35	0.3%	28	26	2.5%
8	21	4.0%	0	2	0	0.6%	32	19	1.8%
TOTAL	519		2000	5	35	1.4%	36	14	1.4%
			4000	21	69	5.9%	40	16	1.5%
			6000	34	104	9.6%	44	11	1.1%
2-GATE SORTS			8000	49	138	13.8%	48	13	1.3%
DET	SORTS	FREQ%							
9	43	8.3%	10000	49	173	13.8%	52	5	0.5%
10	79	15.3%	12000	59	208	16.7%	56	9	0.9%
11	93	18.0%	14000	41	242	11.6%	60	8	0.8%
12	104	20.2%	16000	35	277	9.9%	64	3	0.3%
13	93	18.0%	18000	25	311	7.1%	68	3	0.3%
14	65	12.6%	20000	23	346	6.5%	72	1	0.1%
15	39	7.6%	22000	4	381	1.1%	76	5	0.5%
TOTAL	516		24000	0	415	0.0%	80	1	0.1%
			26000	0	450	0.0%	84	5	0.5%
			>28000	0	0	0.0%	>84	28	2.7%
			TOTAL	354			TOTAL	1,035	
EVENT TYPES		HPE	1,002	MPE	379	DISE	6,853		



SORTER 2				12-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		5.6 tons		18.5 tons		24.1 tons			
MAXIMUM/SORT		57.8 kg		57.8 kg					
MINIMUM/SORT		0.6 kg		42.6 kg					
VOLUME IN-GROUND		4.5 yd³		14.6 yd³		19.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		76.7%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		27,490 kBq		8,656 kBq		4,152 kBq			
MAXIMUM/SORT		1,130 kBq		515 kBq		22 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-13 kBq			
SPECIFIC ACTIVITY				1,539 Bq/kg		225 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				451		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				92		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				98		15:02 14:14			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				332					
UNEXPLAINED RECORDS (71)									
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				4,510					
2-SEC RECORDS WITH SORTS				1,274					
2-SEC RECORDS WITHOUT SORTS				3,236					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,725					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		893	70.09%	5 DET	8	0.63%			
2 DET		294	23.08%	6 DET	0	0.00%			
3 DET		58	4.55%	7 DET	0	0.00%			
4 DET		21	1.65%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				10.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	45	7.2%	-14000	0	-242	0.0%	4	42	3.3%
2	122	19.6%	-12000	1	-208	0.3%	8	560	44.0%
3	95	15.3%	-10000	1	-173	0.3%	12	228	17.9%
4	122	19.6%	-8000	2	-138	0.6%	16	114	8.9%
5	83	13.4%	-6000	0	-104	0.0%	20	76	6.0%
6	91	14.7%	-4000	0	-69	0.0%	24	44	3.5%
7	55	8.9%	-2000	0	-35	0.0%	28	27	2.1%
8	8	1.3%	0	0	0	0.0%	32	22	1.7%
TOTAL	621		2000	3	35	0.8%	36	12	0.9%
			4000	6	69	1.7%	40	21	1.6%
			6000	15	104	4.2%	44	13	1.0%
2-GATE SORTS			8000	50	138	13.9%	48	11	0.9%
DET	SORTS	FREQ%	10000	49	173	13.6%	52	9	0.7%
9	92	14.1%	12000	69	208	19.2%	56	9	0.7%
10	122	18.7%	14000	55	242	15.3%	60	5	0.4%
11	137	21.0%	16000	47	277	13.1%	64	9	0.7%
12	112	17.2%	18000	34	311	9.4%	68	4	0.3%
13	99	15.2%	20000	22	346	6.1%	72	2	0.2%
14	68	10.4%	22000	5	381	1.4%	76	5	0.4%
15	23	3.5%							
TOTAL	653		24000	1	415	0.3%	80	4	0.3%
			26000	0	450	0.0%	84	6	0.5%
			>28000	0	0	0.0%	>84	51	4.0%
			TOTAL	360			TOTAL	1,274	
EVENT TYPES		HPE	1,222	MPE	456	DISE	6,649		



WORK HISTORY - JA SOIL CLEANUP PLANT

13-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

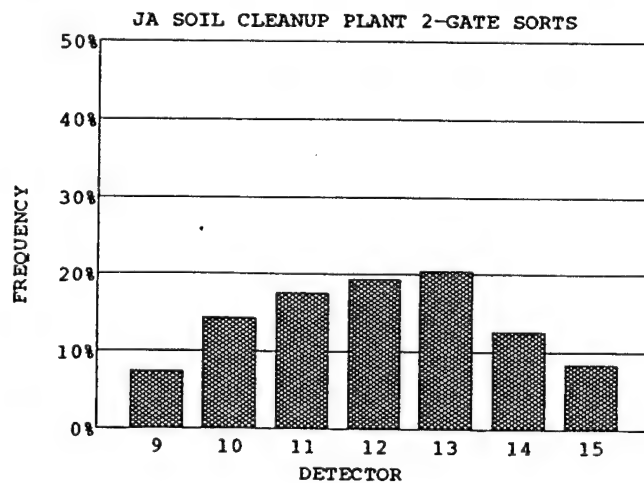
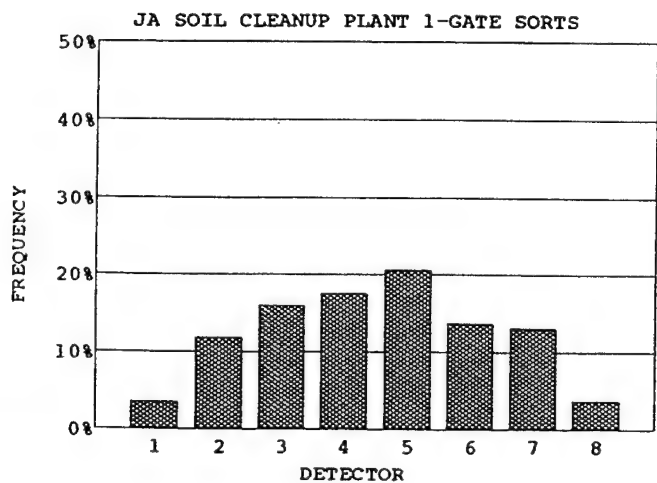
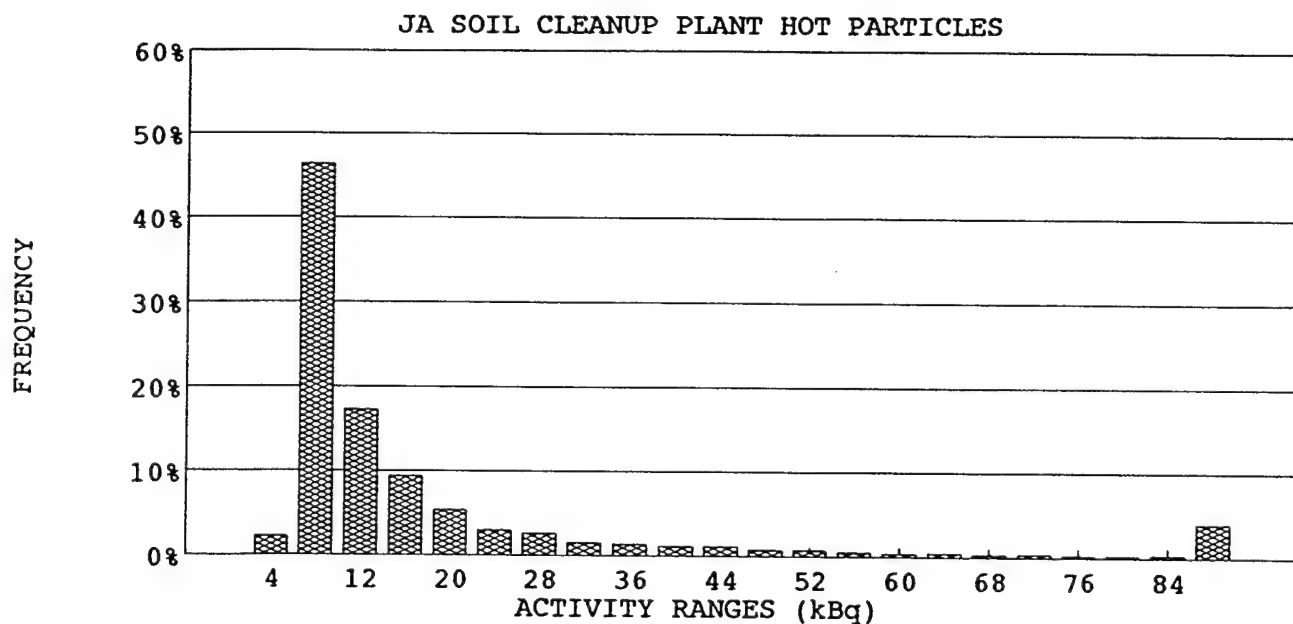
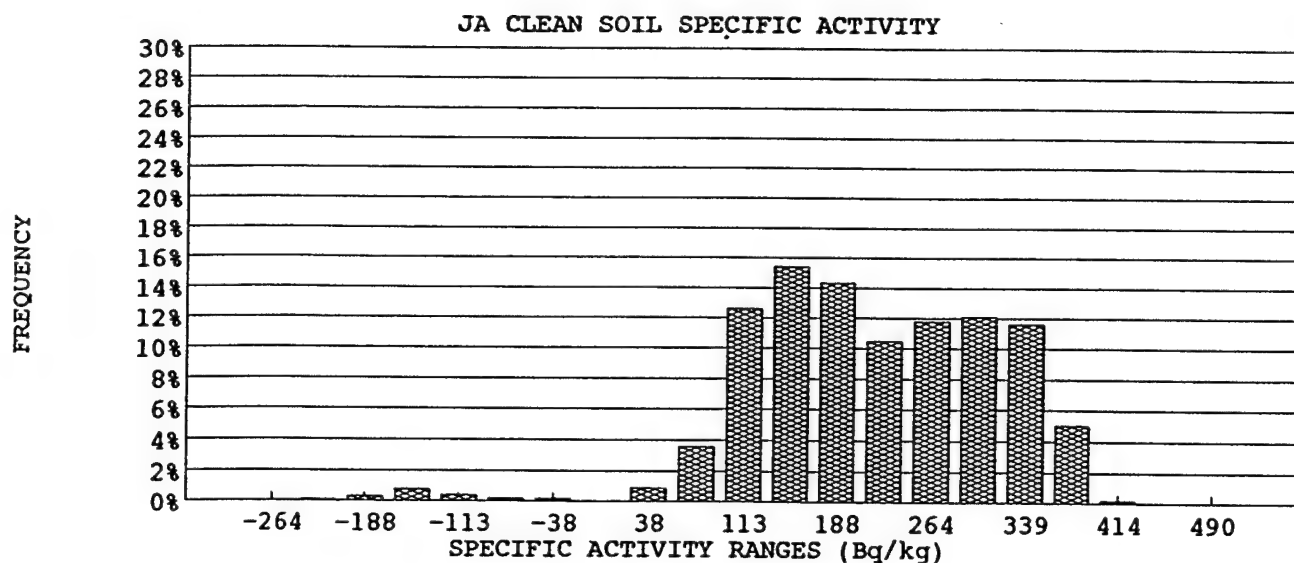
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	8.3 hr	8.3 hr	0.0 hr	0.0 hr	16.6 hr
SORTER START-UP	06:57	06:57	NA	NA	
START SOIL PROCESSING	07:02	07:02	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	15:15	15:15	NA	NA	
END SOIL PROCESSING	15:01	15:00	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	7.8 hr	7.7 hr	0.0 hr	0.0 hr	15.5 hr
DOWN-TIME	0.5 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
SYSTEM PAUSE	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.3 hr
SORTER NONAVAILABLE TIME	2.2 hr	2.2 hr	10.0 hr	10.0 hr	24.4 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					93.4%
PRODUCTIVITY					36.9%

PRODUCTIVITY

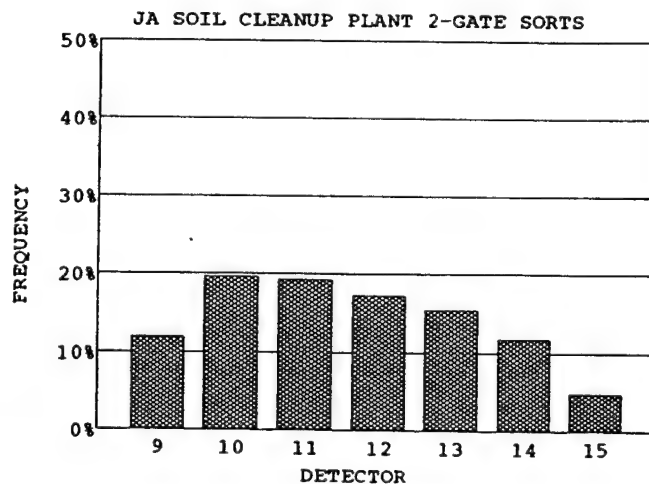
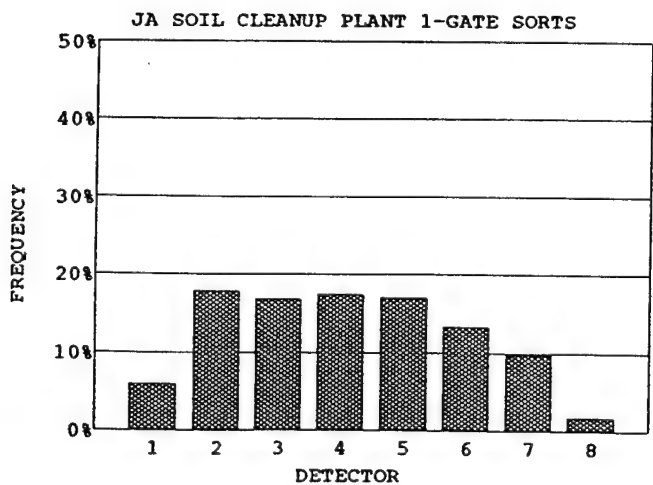
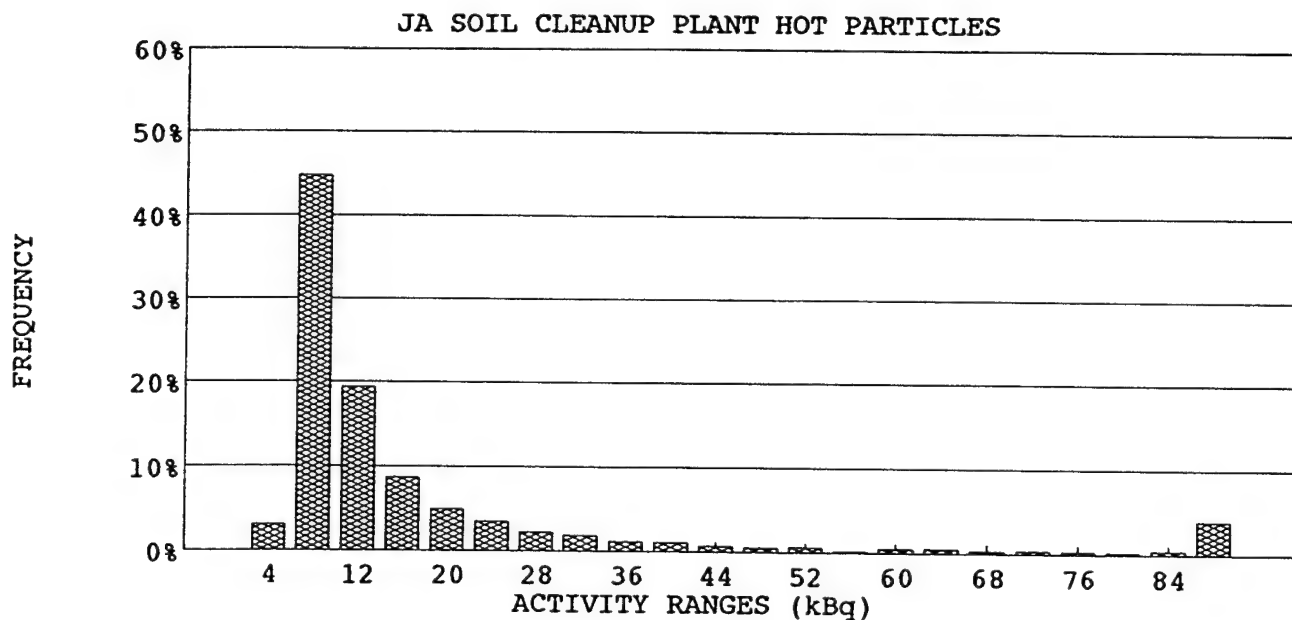
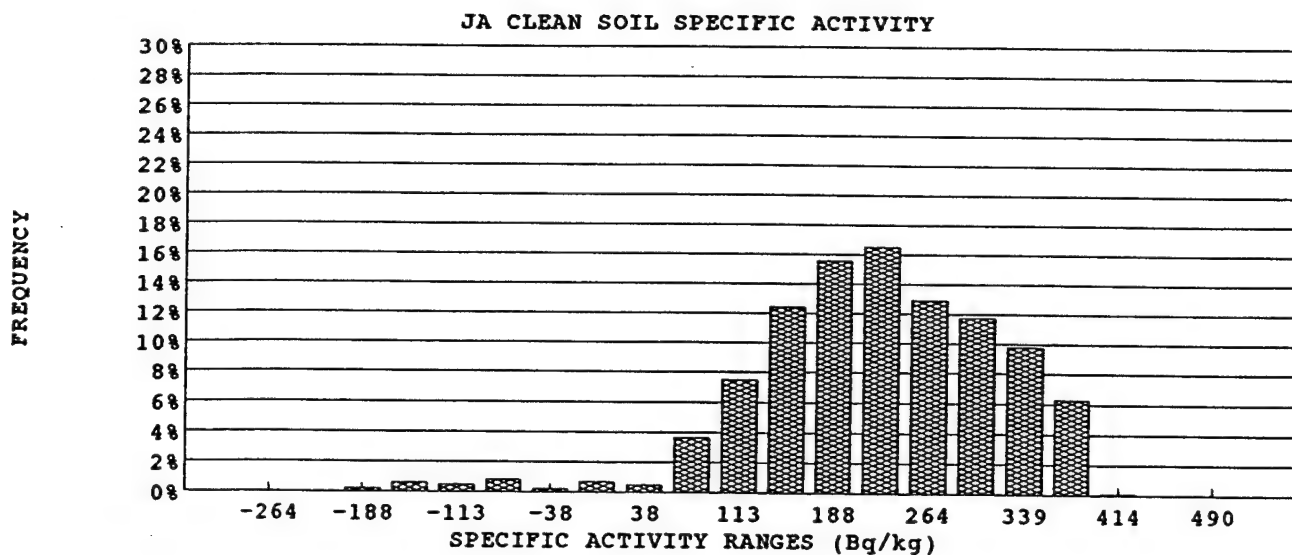
Date	13-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	282	Excused delays for contract (sorter-hrs)	5,070 hr
Current Contract week	47	Excused delay days (plant-days)	127 days
		Excused delay months (plant-month)	4.88 months
Soil production for Day	148 MT		
Cumulative Soil Production for Week	838 MT	Percent of contract completed	56.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,735 MT
Since 6 Sep 93	54,694 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	56,285 MT		
Total Soil production for project	82,572 MT		

MT = metric tons

SORTER 1				13-Aug-94					
SORTER SOIL DENSITY			1.14 tons/m³	BACKGROUND		0.71 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		21.7 tons		52.5 tons		74.2 tons			
MAXIMUM/SORT		53.1 kg		53.1 kg					
MINIMUM/SORT		0.7 kg		41.8 kg					
VOLUME IN-GROUND		17.2 yd³		41.6 yd³		58.8 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		70.8%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		88,154 kBq		29,481 kBq		10,827 kBq			
MAXIMUM/SORT		2,813 kBq		1,146 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-11 kBq			
SPECIFIC ACTIVITY				1,359 Bq/kg		206 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,397		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				378		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				351		None	09:02		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				668			13:14		
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				13,970					
2-SEC RECORDS WITH SORTS				3,760					
2-SEC RECORDS WITHOUT SORTS				10,210					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,157					
NONPROCESSING RECORDS (Test, calibration, etc)				13					
2-SEC SORT DETECTORS									
1 DET		2,601	69.18%	5 DET	16	0.43%			
2 DET		873	23.22%	6 DET	0	0.00%			
3 DET		222	5.90%	7 DET	0	0.00%			
4 DET		48	1.28%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				10.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	67	3.6%	-14000	0	-264	0.0%	4	84	2.2%
2	224	11.9%	-12000	1	-226	0.1%	8	1,746	46.4%
3	301	16.0%	-10000	3	-188	0.3%	12	651	17.3%
4	331	17.5%	-8000	8	-151	0.8%	16	353	9.4%
5	389	20.6%	-6000	4	-113	0.4%	20	202	5.4%
6	258	13.7%	-4000	2	-75	0.2%	24	114	3.0%
7	248	13.1%	-2000	2	-38	0.2%	28	99	2.6%
8	69	3.7%	0	0	0	0.0%	32	57	1.5%
TOTAL	1,887		2000	9	38	0.9%	36	52	1.4%
			4000	37	75	3.6%	40	44	1.2%
2-GATE SORTS			6000	130	113	12.6%	44	44	1.2%
DET	SORTS	FREQ%	8000	159	151	15.4%	48	28	0.7%
9	138	7.4%	10000	148	188	14.3%	52	28	0.7%
10	267	14.3%	12000	108	226	10.5%	56	21	0.6%
11	329	17.6%	14000	122	264	11.8%	60	14	0.4%
12	362	19.3%	16000	125	301	12.1%	64	16	0.4%
13	383	20.4%	18000	120	339	11.6%	68	11	0.3%
14	236	12.6%	20000	52	377	5.0%	72	15	0.4%
15	158	8.4%	22000	2	414	0.2%	76	9	0.2%
TOTAL	1,873		24000	0	452	0.0%	80	9	0.2%
			26000	0	490	0.0%	84	11	0.3%
			>28000	0	0	0.0%	>84	152	4.0%
			TOTAL	1,032			TOTAL	3,760	
EVENT TYPES		HPE	3,576	MPE	1,406	DISE	27,700		



SORTER 2				13-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m ³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		32.0 tons		42.0 tons		74.0 tons			
MAXIMUM/SORT		53.1 kg		53.1 kg					
MINIMUM/SORT		0.7 kg		42.5 kg					
VOLUME IN-GROUND		25.4 yd ³		33.3 yd ³		58.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		56.7%							
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
				HOT		CLEAN			
TOTAL		103,588 kBq		40,020 kBq		8,981 kBq			
MAXIMUM/SORT		2,764 kBq		1,173 kBq		20 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				1,250 Bq/kg		214 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,393		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				580		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				303		11:33		09:02	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				510		11:56		13:14	
UNEXPLAINED RECORDS				0		13:33			
0<AD<1kBq & MD>0				4		14:12			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				13,930					
2-SEC RECORDS WITH SORTS				4,711					
2-SEC RECORDS WITHOUT SORTS				9,219					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				6,104					
NONPROCESSING RECORDS (Test, calibration, etc)				16					
2-SEC SORT DETECTORS									
1 DET		3,215	68.24%	5 DET		25	0.53%		
2 DET		1,109	23.54%	6 DET		0	0.00%		
3 DET		293	6.22%	7 DET		0	0.00%		
4 DET		69	1.46%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				8.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	141	6.0%	-14000	0	-264	0.0%	4	147	3.1%
2	422	17.9%	-12000	0	-226	0.0%	8	2,110	44.8%
3	397	16.8%	-10000	2	-188	0.2%	12	913	19.4%
4	411	17.4%	-8000	5	-151	0.6%	16	409	8.7%
5	402	17.0%	-6000	4	-113	0.5%	20	236	5.0%
6	314	13.3%	-4000	7	-75	0.8%	24	166	3.5%
7	232	9.8%	-2000	2	-38	0.2%	28	107	2.3%
8	42	1.8%	0	6	0	0.7%	32	87	1.8%
TOTAL	2,361		2000	4	38	0.5%	36	57	1.2%
2-GATE SORTS			4000	30	75	3.6%	40	51	1.1%
DET	SORTS	FREQ%	6000	62	113	7.5%	44	35	0.7%
9	280	11.9%	8000	103	151	12.4%	48	26	0.6%
10	461	19.6%	10000	129	188	15.6%	52	30	0.6%
11	452	19.2%	12000	137	226	16.5%	56	10	0.2%
12	405	17.2%	14000	107	264	12.9%	60	28	0.6%
13	405	17.2%	16000	97	301	11.7%	64	26	0.6%
14	275	11.7%	18000	81	339	9.8%	68	17	0.4%
15	115	4.9%	20000	52	377	6.3%	72	20	0.4%
TOTAL	2,350		22000	1	414	0.1%	76	17	0.4%
			24000	0	452	0.0%	80	11	0.2%
			26000	0	490	0.0%	84	22	0.5%
			>28000	0	0	0.0%	>84	186	3.9%
			TOTAL	829			TOTAL	4,711	
EVENT TYPES		HPE	4,434	MPE	2,111	DISE	41,672		



WORK HISTORY - JA SOIL CLEANUP PLANT

15-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

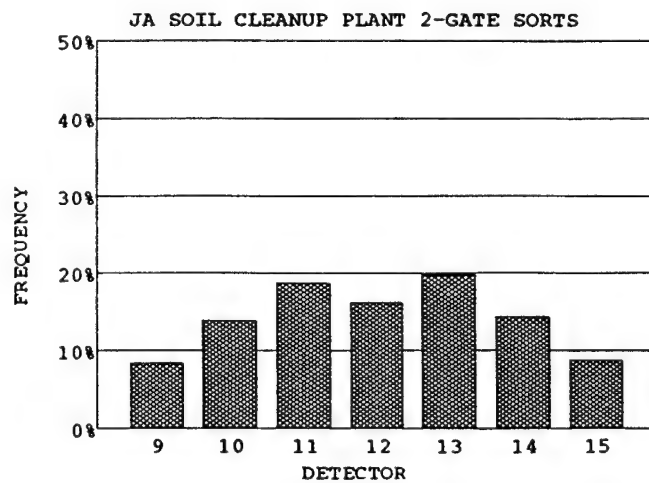
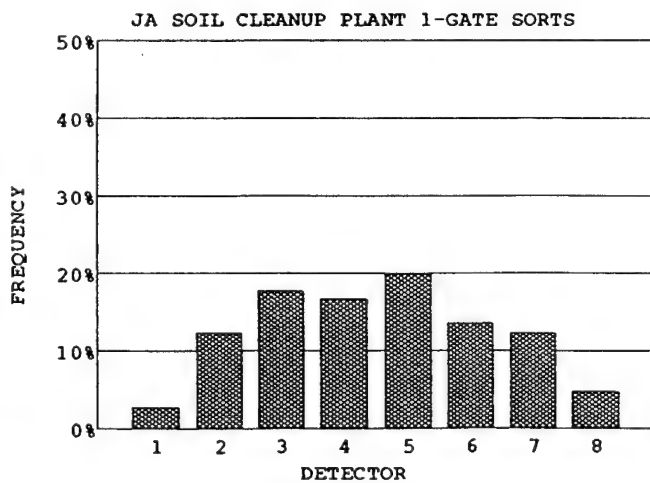
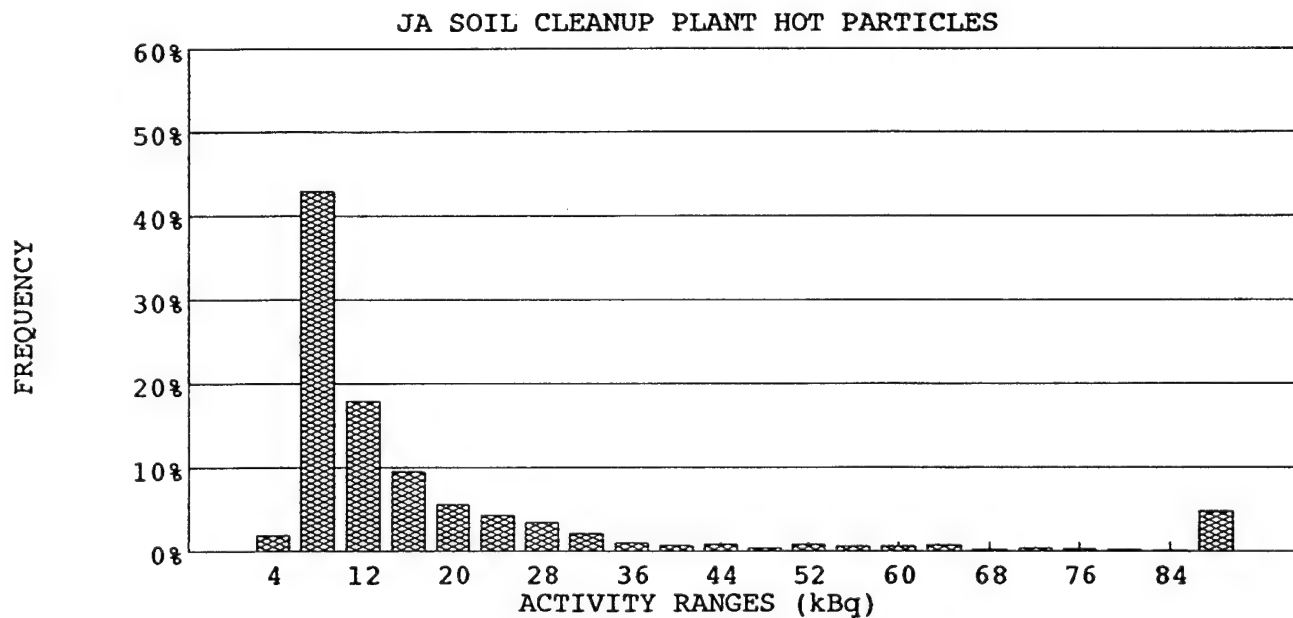
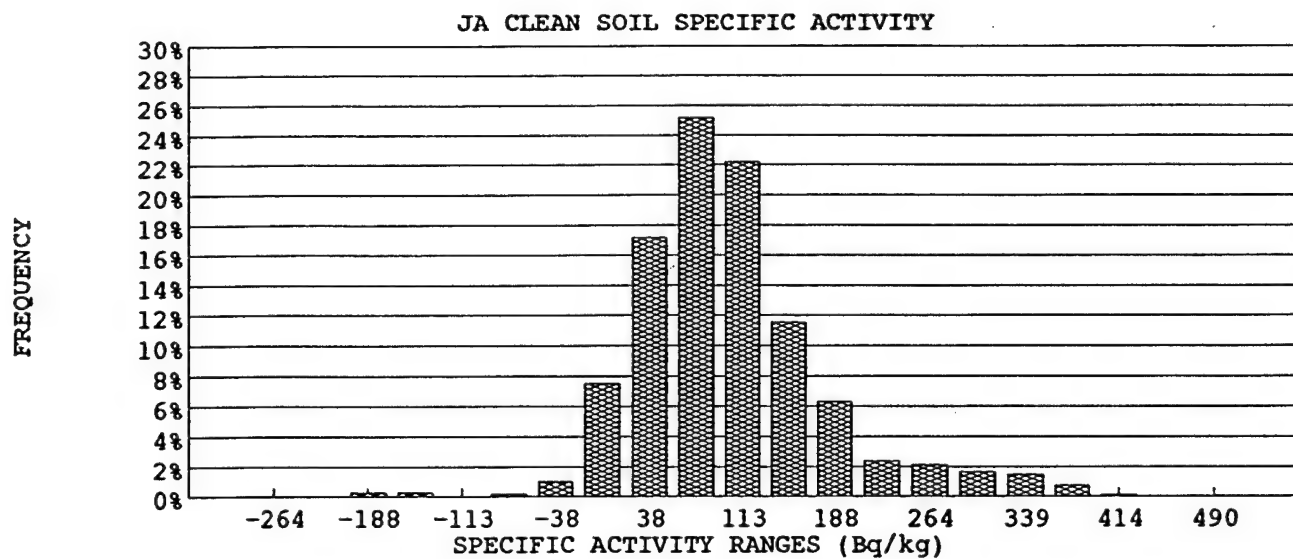
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	8.3 hr	8.3 hr	0.0 hr	0.0 hr	16.6 hr
SORTER START-UP	06:32	06:32	NA	NA	
START SOIL PROCESSING	06:46	06:47	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.3 hr	0.0 hr	0.0 hr	0.5 hr
SORTER SHUT-DOWN	15:20	15:20	NA	NA	
END SOIL PROCESSING	15:02	15:01	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
ACTUAL PROCESS HOURS	7.1 hr	7.1 hr	0.0 hr	0.0 hr	14.1 hr
DOWN-TIME	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.5 hr
SYSTEM PAUSE	1.2 hr	1.2 hr	0.0 hr	0.0 hr	2.3 hr
SORTER NONAVAILABLE TIME	1.7 hr	1.7 hr	10.0 hr	10.0 hr	23.4 hr
AUTHORIZED DELAY TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
PLANT PERFORMANCE					85.1%
PRODUCTIVITY					35.3%

PRODUCTIVITY

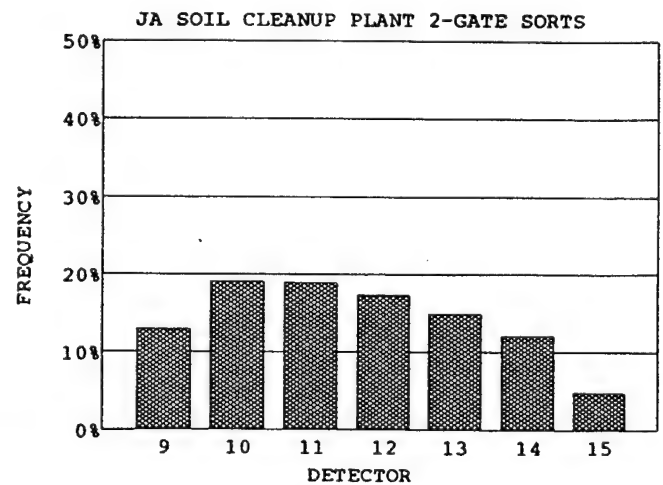
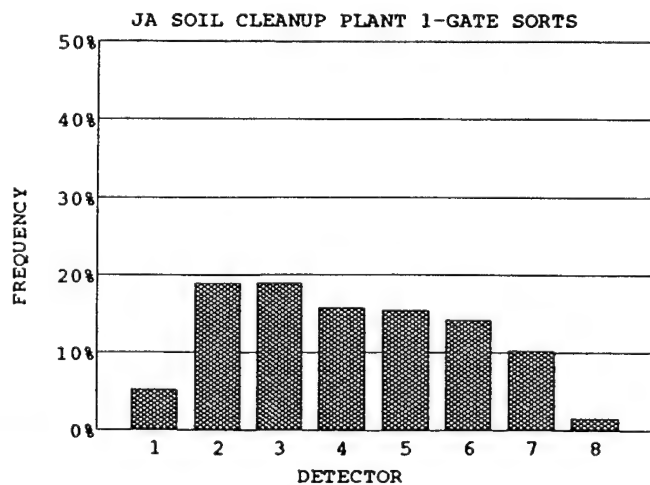
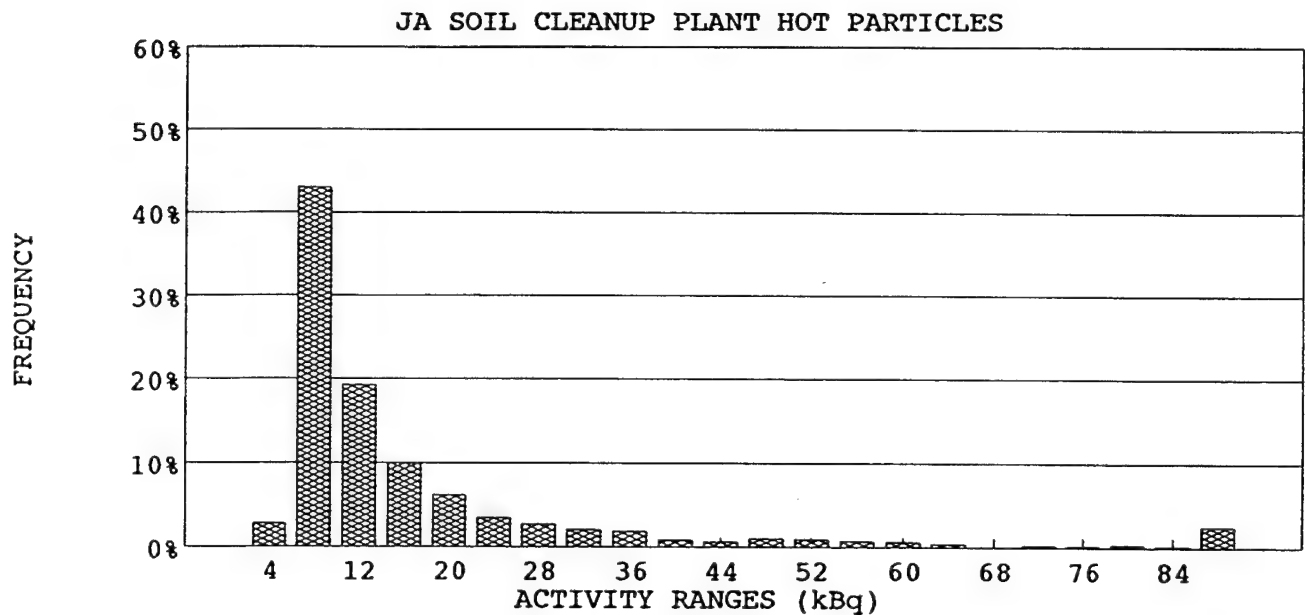
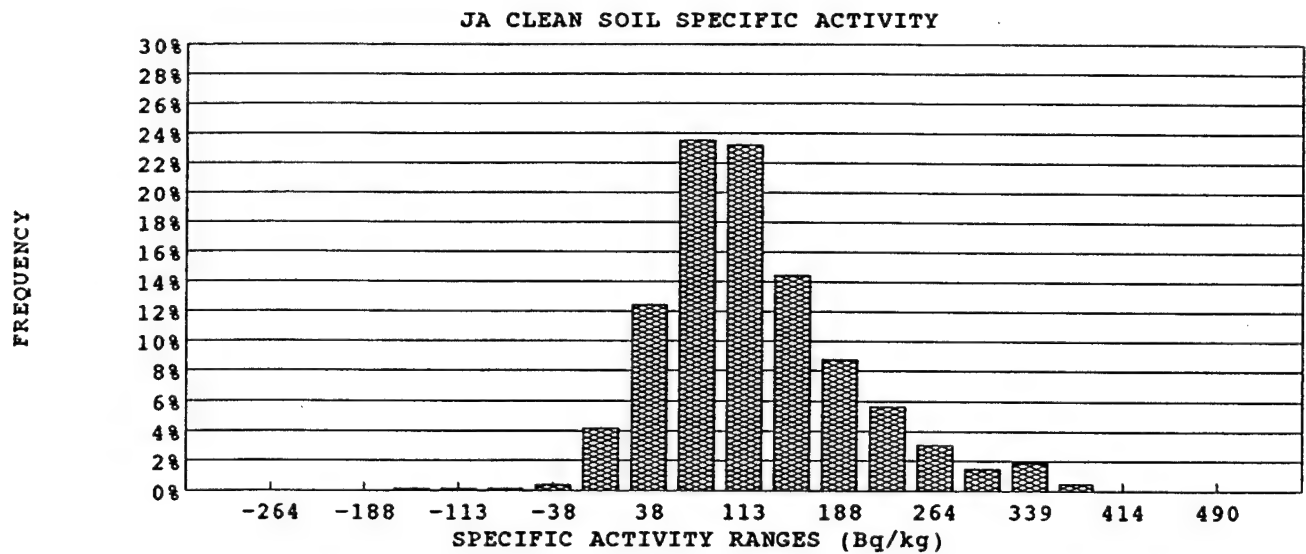
Date	15-Aug-94	Excused Delays for day (sorter-hrs)	21 hr
Contract day (from 6 Sep)	283	Excused delays for contract (sorter-hrs)	5,091 hr
Current Contract week	48	Excused delay days (plant-days)	127 days
		Excused delay months (plant-month)	4.90 months
Soil production for Day	135 MT		
Cumulative Soil Production for Week	135 MT	Percent of contract completed	56.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,720 MT
Since 6 Sep 93	54,829 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	56,420 MT		
Total Soil production for project	82,707 MT		

MT = metric tons

SORTER 1				15-Aug-94											
SORTER SOIL DENSITY		1.14 tons/m ³		BACKGROUND		0.70 ± 0.02 c/s									
SOIL		CONTAMINATED		CLEAN		TOTAL									
MASS TOTAL		3.7 tons		63.7 tons		67.5 tons									
MAXIMUM/SORT		53.1 kg		53.1 kg											
MINIMUM/SORT		0.7 kg		44.5 kg											
VOLUME IN-GROUND		3.0 yd ³		50.5 yd ³		53.5 yd ³									
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		94.5%													
ACTIVITY				DISPERSED + PARTICLE											
		PARTICLE		HOT		CLEAN									
TOTAL		31,355 kBq		8,201 kBq		5,501 kBq									
MAXIMUM/SORT		2,063 kBq		919 kBq		20 kBq									
MINIMUM/SORT		3 kBq		0 Bq		-4 kBq									
SPECIFIC ACTIVITY				2,192 Bq/kg		86 Bq/kg									
SORTS															
20-SEC PROCESS PERIODS				1,271		UNEXP PAUSE									
ALL 80 ELEMENTS SORT (MD>0&MND=0)				57		TIME TIME									
NONE (AD=0 & MD=0 & MND>0)				837		07:02 10:51									
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				377		08:10									
UNEXPLAINED RECORDS				0		14:01									
0<AD<1kBq & MD>0				4		14:12									
AD=0 & MD>0				0											
AD<0 & MD >0				0											
2-SEC COUNT PERIODS				12,710											
2-SEC RECORDS WITH SORTS				1,185											
2-SEC RECORDS WITHOUT SORTS				11,525											
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,456											
NONPROCESSING RECORDS (Test, calibration, etc)				8											
2-SEC SORT DETECTORS															
1 DET		809	68.27%	5 DET		1	0.08%								
2 DET		295	24.89%	6 DET		0	0.00%								
3 DET		63	5.32%	7 DET		0	0.00%								
4 DET		17	1.43%	8 DET		0	0.00%								
AVERAGE TIME BETWEEN 2-SEC SORTS				31.4 sec											
FREQUENCY DISTRIBUTIONS															
1-GATE SORTS		ACT_ND		NUM		SPEC_A		FREQ%		ACT_P		NUM		FREQ%	
DET SORTS		FREQ%		(Bq)		(#)		(Bq/kg)		(kBq)		(#)			
1 16		2.7%		-14000		0		-264		0.0%		4		23 1.9%	
2 72		12.3%		-12000		0		-226		0.0%		8		509 43.0%	
3 104		17.7%		-10000		3		-188		0.2%		12		212 17.9%	
4 98		16.7%		-8000		3		-151		0.2%		16		113 9.5%	
5 117		19.9%		-6000		0		-113		0.0%		20		67 5.7%	
6 80		13.6%		-4000		2		-75		0.2%		24		51 4.3%	
7 72		12.3%		-2000		12		-38		1.0%		28		41 3.5%	
8 28		4.8%		0		92		0		7.5%		32		26 2.2%	
TOTAL 587				2000		210		38		17.2%		36		12 1.0%	
				4000		308		75		25.2%		40		8 0.7%	
2-GATE SORTS				6000		271		113		22.2%		44		10 0.8%	
DET SORTS		FREQ%		8000		141		151		11.5%		48		5 0.4%	
9 50		8.4%		10000		77		188		6.3%		52		10 0.8%	
10 83		13.9%		12000		29		226		2.4%		56		7 0.6%	
11 112		18.7%		14000		26		264		2.1%		60		7 0.6%	
12 97		16.2%		16000		20		301		1.6%		64		9 0.8%	
13 118		19.7%		18000		18		339		1.5%		68		3 0.3%	
14 86		14.4%		20000		9		377		0.7%		72		5 0.4%	
15 52		8.7%		22000		1		414		0.1%		76		4 0.3%	
TOTAL 598				24000		0		452		0.0%		80		3 0.3%	
				26000		0		490		0.0%		84		2 0.2%	
				>28000		0		0		0.0%		>84		58 4.9%	
				TOTAL		1,222						TOTAL		1,185	
EVENT TYPES		HPE		1,147		MPE		334		DISE		4,157			



SORTER 2				15-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				4.5 tons		63.0 tons		67.5 tons	
MAXIMUM/SORT				53.1 kg		53.1 kg			
MINIMUM/SORT				0.7 kg		45.1 kg			
VOLUME IN-GROUND				3.5 yd³		50.0 yd³		53.5 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				93.4%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				24,129 kBq		7,395 kBq		6,536 kBq	
MAXIMUM/SORT				1,495 kBq		651 kBq		19 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-5 kBq	
SPECIFIC ACTIVITY						1,656 Bq/kg		104 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				1,271				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				70				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				792				10:12 10:52	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				409				12:47	
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,710					
2-SEC RECORDS WITH SORTS				1,301					
2-SEC RECORDS WITHOUT SORTS				11,409					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,572					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET 941 72.33%				5 DET 3 0.23%					
2 DET 288 22.14%				6 DET 0 0.00%					
3 DET 54 4.15%				7 DET 0 0.00%					
4 DET 15 1.15%				8 DET 0 0.00%					
AVERAGE TIME BETWEEN 2-SEC SORTS				27.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	34	5.2%	-14000	0	-264	0.0%	4	37	2.8%
2	124	18.9%	-12000	0	-226	0.0%	8	559	43.0%
3	124	18.9%	-10000	0	-188	0.0%	12	250	19.2%
4	103	15.7%	-8000	2	-151	0.2%	16	130	10.0%
5	101	15.4%	-6000	2	-113	0.2%	20	81	6.2%
6	93	14.2%	-4000	2	-75	0.2%	24	46	3.5%
7	67	10.2%	-2000	5	-38	0.4%	28	35	2.7%
8	10	1.5%	0	50	0	4.1%	32	28	2.2%
TOTAL	656		2000	150	38	12.4%	36	24	1.8%
			4000	284	75	23.5%	40	11	0.8%
2-GATE SORTS			6000	280	113	23.2%	44	8	0.6%
DET	SORTS	FREQ%	8000	174	151	14.4%	48	14	1.1%
9	83	12.9%	10000	106	188	8.8%	52	12	0.9%
10	123	19.1%	12000	68	226	5.6%	56	9	0.7%
11	122	18.9%	14000	37	264	3.1%	60	8	0.6%
12	112	17.4%	16000	18	301	1.5%	64	5	0.4%
13	96	14.9%	18000	23	339	1.9%	68	0	0.0%
14	78	12.1%	20000	6	377	0.5%	72	3	0.2%
15	31	4.8%	22000	0	414	0.0%	76	2	0.2%
TOTAL	645		24000	0	452	0.0%	80	4	0.3%
			26000	0	490	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	33	2.5%
			TOTAL	1,207			TOTAL	1,301	
EVENT TYPES		HPE	1,287	MPE	365	DISE	5,071		



WORK HISTORY - JA SOIL CLEANUP PLANT

16-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

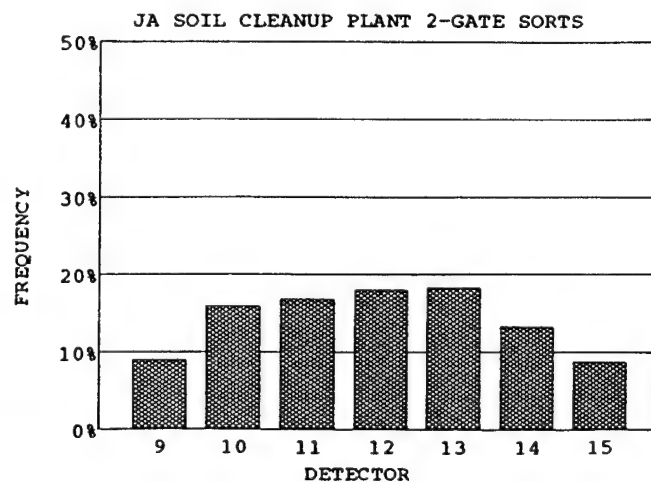
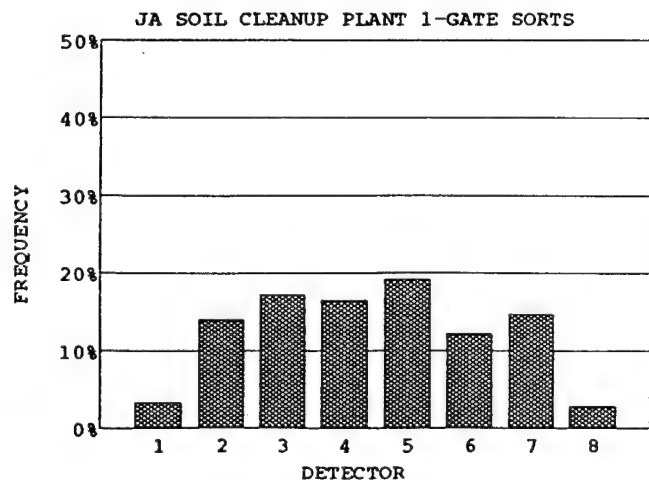
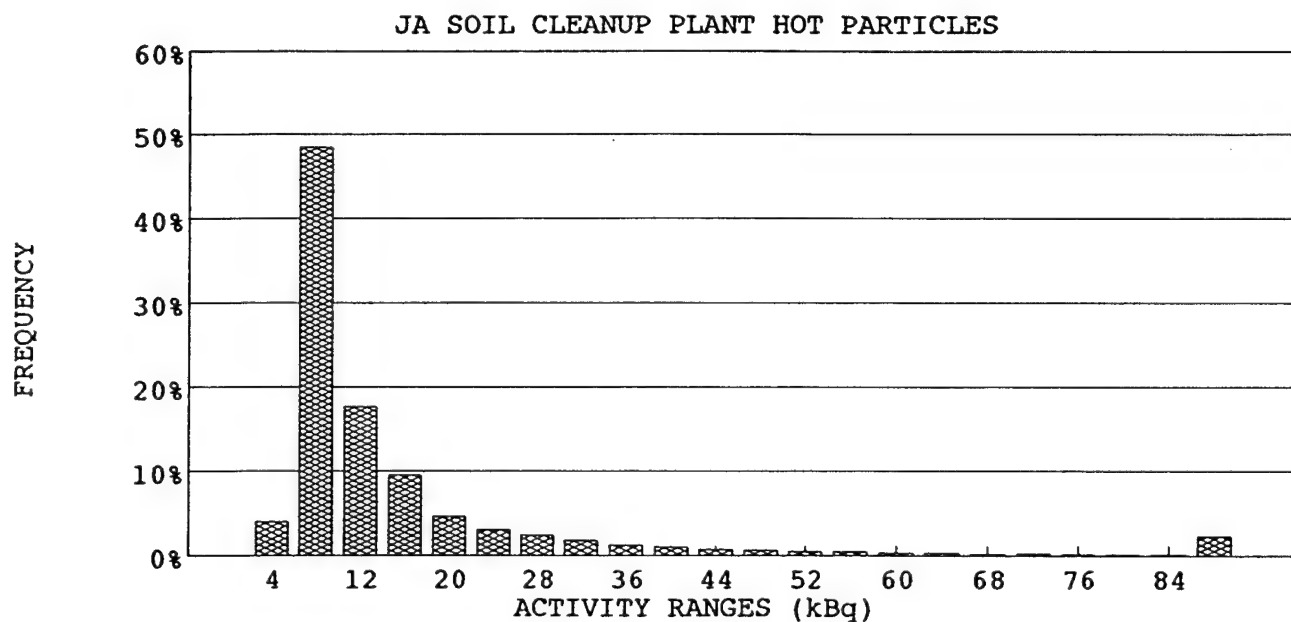
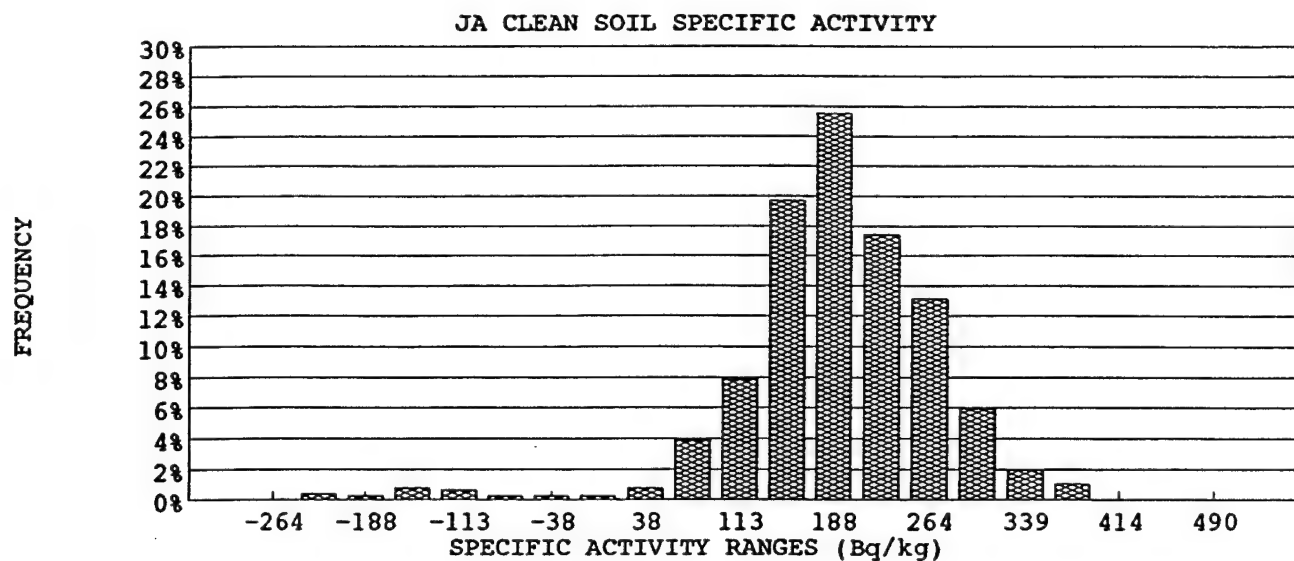
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.3 hr	9.3 hr	0.0 hr	0.0 hr	18.6 hr
SORTER START-UP	06:33	06:33	NA	NA	
START SOIL PROCESSING	06:39	06:38	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:05	16:05	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.5 hr
ACTUAL PROCESS HOURS	7.9 hr	8.0 hr	0.0 hr	0.0 hr	15.9 hr
DOWN-TIME	1.3 hr	1.3 hr	0.0 hr	0.0 hr	2.6 hr
SYSTEM PAUSE	1.4 hr	1.4 hr	0.0 hr	0.0 hr	2.9 hr
SORTER NONAVAILABLE TIME	0.7 hr	0.7 hr	10.0 hr	10.0 hr	21.4 hr
AUTHORIZED DELAY TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
PLANT PERFORMANCE					85.8%
PRODUCTIVITY					39.8%

PRODUCTIVITY

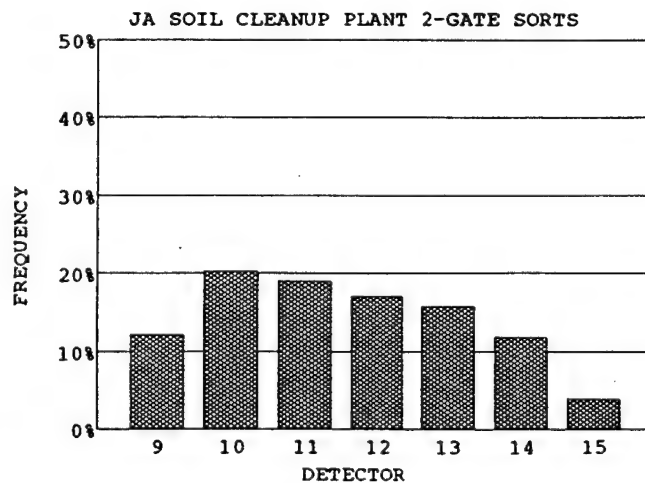
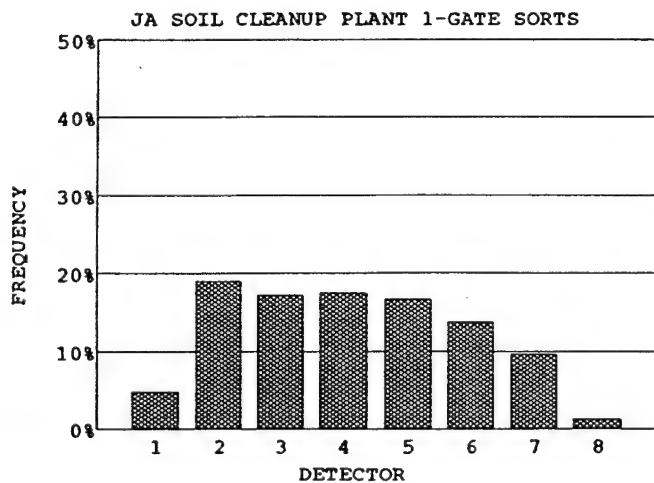
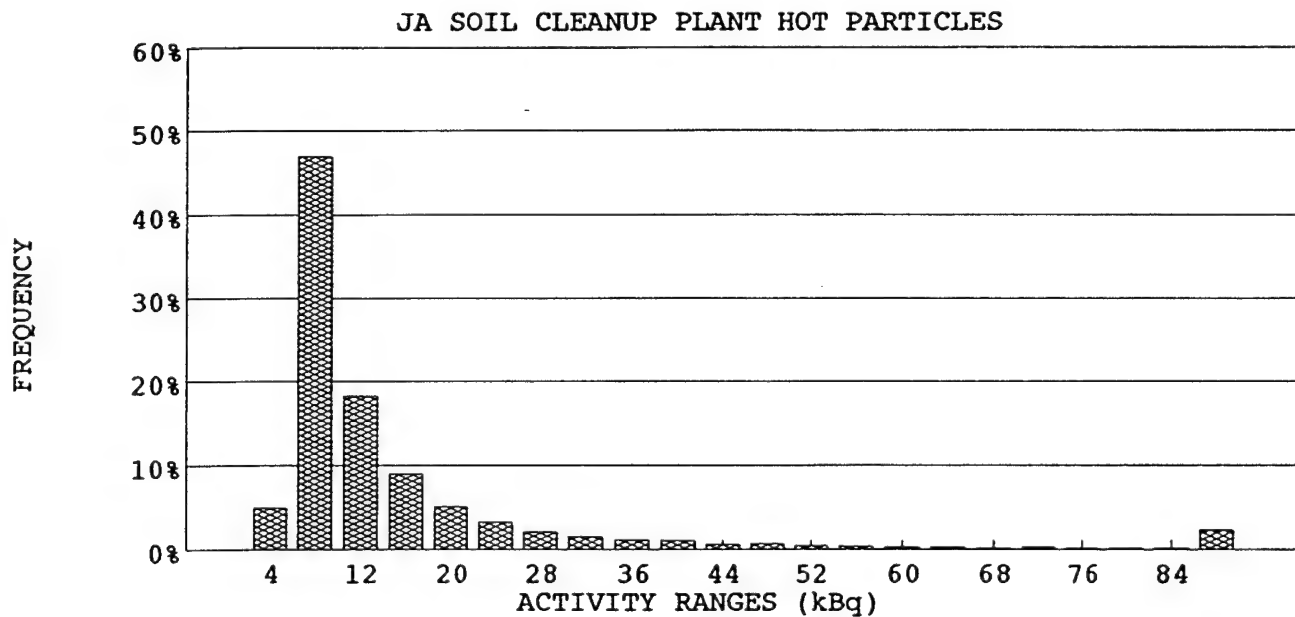
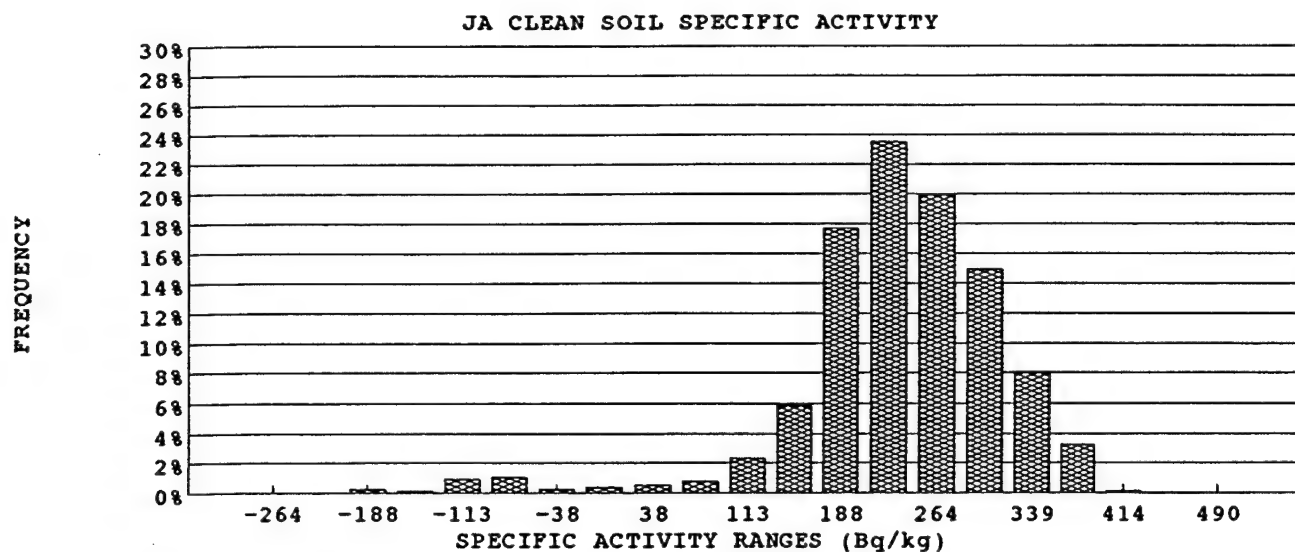
Date	16-Aug-94	Excused Delays for day (sorter-hrs)	21 hr
Contract day (from 6 Sep)	284	Excused delays for contract (sorter-hrs)	5,112 hr
Current Contract week	48	Excused delay days (plant-days)	128 days
		Excused delay months (plant-month)	4.92 months
Soil production for Day	152 MT		
Cumulative Soil Production for Week	287 MT	Percent of contract completed	56.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,722 MT
Since 6 Sep 93	54,981 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	56,572 MT		
Total Soil production for project	82,859 MT		

MT = metric tons

SORTER 1				16-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m³		BACKGROUND		0.69 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		36.5 tons		39.5 tons		75.9 tons			
MAXIMUM/SORT		53.1 kg		53.1 kg					
MINIMUM/SORT		0.7 kg		34.5 kg					
VOLUME IN-GROUND		28.9 yd³		31.3 yd³		60.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		52.0%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		158,365 kBq		68,071 kBq		7,121 kBq			
MAXIMUM/SORT		2,491 kBq		1,185 kBq		20 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-10 kBq			
SPECIFIC ACTIVITY				1,867 Bq/kg		180 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,430		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				670		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				294		12:55 07:24			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				466		14:04 08:19			
UNEXPLAINED RECORDS				0		14:47 12:55			
0<AD<1kBq & MD>0				3		10:14			
AD=0 & MD>0				0		10:49			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,300					
2-SEC RECORDS WITH SORTS				9,216					
2-SEC RECORDS WITHOUT SORTS				5,084					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				10,646					
NONPROCESSING RECORDS (Test, calibration, etc)				16					
2-SEC SORT DETECTORS									
1 DET		5,712 61.98%	5 DET	58	0.63%				
2 DET		2,432 26.39%	6 DET	0	0.00%				
3 DET		787 8.54%	7 DET	2	0.02%				
4 DET		227 2.46%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS				4.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	152	3.3%	-14000	0	-264	0.0%	4	368	4.0%
2	649	14.1%	-12000	3	-226	0.4%	8	4,468	48.5%
3	797	17.3%	-10000	2	-188	0.3%	12	1,628	17.7%
4	759	16.4%	-8000	6	-151	0.8%	16	880	9.5%
5	884	19.1%	-6000	5	-113	0.6%	20	428	4.6%
6	564	12.2%	-4000	2	-75	0.3%	24	286	3.1%
7	681	14.7%	-2000	2	-38	0.3%	28	219	2.4%
8	131	2.8%	0	2	0	0.3%	32	162	1.8%
TOTAL	4,617		2000	6	38	0.8%	36	115	1.2%
2-GATE SORTS			4000	30	75	3.9%	40	93	1.0%
			6000	61	113	7.9%	44	63	0.7%
DET	SORTS	FREQ%	8000	153	151	19.7%	48	59	0.6%
9	413	9.0%	10000	198	188	25.5%	52	41	0.4%
10	732	15.9%	12000	135	226	17.4%	56	45	0.5%
11	775	16.9%	14000	102	264	13.1%	60	28	0.3%
12	828	18.0%	16000	46	301	5.9%	64	28	0.3%
13	838	18.2%	18000	15	339	1.9%	68	19	0.2%
14	612	13.3%	20000	8	377	1.0%	72	21	0.2%
15	401	8.7%	22000	0	414	0.0%	76	19	0.2%
TOTAL	4,599		24000	0	452	0.0%	80	12	0.1%
			26000	0	490	0.0%	84	17	0.2%
			>28000	0	0	0.0%	>84	217	2.4%
			TOTAL	776			TOTAL	9,216	
EVENT TYPES		HPE	8,018	MPE	6,999	DISE	39,925		



SORTER 2				16-Aug-94					
SORTER SOIL DENSITY		1.14 tons/m³		BACKGROUND		0.76 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		37.2 tons		39.3 tons		76.4 tons			
MAXIMUM/SORT		53.1 kg		53.1 kg					
MINIMUM/SORT		0.7 kg		37.2 kg					
VOLUME IN-GROUND		29.5 yd³		31.1 yd³		60.6 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		51.4%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				161,098 kBq	72,107 kBq	8,858 kBq			
MAXIMUM/SORT				1,028 kBq	479 kBq	20 kBq			
MINIMUM/SORT				2 kBq	0 Bq	-11 kBq			
SPECIFIC ACTIVITY					1,941 Bq/kg	226 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,439		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				682		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				281		12:09	07:24		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				476		13:39	08:20		
UNEXPLAINED RECORDS				0		14:41	12:09		
0<AD<1kBq & MD>0				4		15:29	10:14		
AD=0 & MD>0				0			10:50		
AD<0 & MD > 0				0					
2-SEC COUNT PERIODS				14,390					
2-SEC RECORDS WITH SORTS				9,965					
2-SEC RECORDS WITHOUT SORTS				4,425					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				11,404					
NONPROCESSING RECORDS (Test, calibration, etc)				12					
2-SEC SORT DETECTORS									
1 DET		6,104	61.25%	5 DET	78	0.78%			
2 DET		2,646	26.55%	6 DET	0	0.00%			
3 DET		894	8.97%	7 DET	3	0.03%			
4 DET		243	2.44%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				4.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	246	4.9%	-14000	0	-264	0.0%	4	496	5.0%
2	956	19.0%	-12000	0	-226	0.0%	8	4,674	46.9%
3	870	17.3%	-10000	2	-188	0.3%	12	1,826	18.3%
4	882	17.5%	-8000	1	-151	0.1%	16	899	9.0%
5	839	16.7%	-6000	7	-113	0.9%	20	509	5.1%
6	692	13.8%	-4000	8	-75	1.0%	24	322	3.2%
7	485	9.6%	-2000	2	-38	0.3%	28	212	2.1%
8	62	1.2%	0	3	0	0.4%	32	161	1.6%
TOTAL	5,032		2000	4	38	0.5%	36	118	1.2%
			4000	6	75	0.8%	40	111	1.1%
2-GATE SORTS			6000	18	113	2.3%	44	65	0.7%
DET	SORTS	FREQ%	8000	45	151	5.9%	48	73	0.7%
9	599	12.1%	10000	136	188	17.7%	52	50	0.5%
10	1,000	20.3%	12000	181	226	23.5%	56	41	0.4%
11	938	19.0%	14000	153	264	19.9%	60	35	0.4%
12	845	17.1%	16000	115	301	15.0%	64	34	0.3%
13	776	15.7%	18000	62	339	8.1%	68	20	0.2%
14	581	11.8%	20000	25	377	3.3%	72	32	0.3%
15	194	3.9%	22000	1	414	0.1%	76	19	0.2%
TOTAL	4,933		24000	0	452	0.0%	80	20	0.2%
			26000	0	490	0.0%	84	16	0.2%
			>28000	0	0	0.0%	>84	232	2.3%
			TOTAL	769			TOTAL	9,965	
EVENT TYPES		HPE	8,530	MPE	8,112	DISE	39,337		



WORK HISTORY - JA SOIL CLEANUP PLANT

17-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

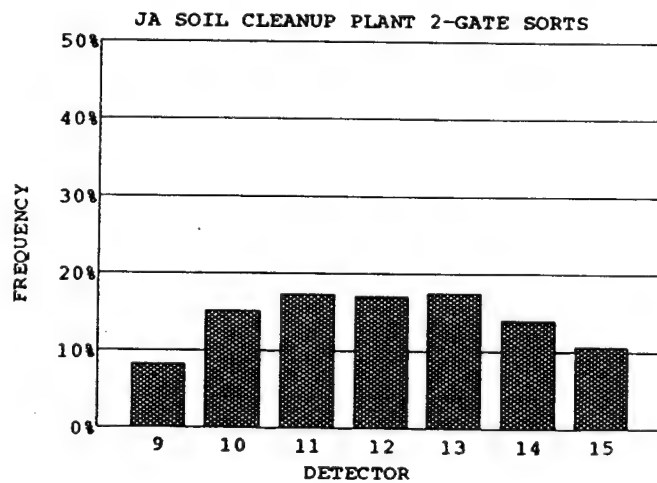
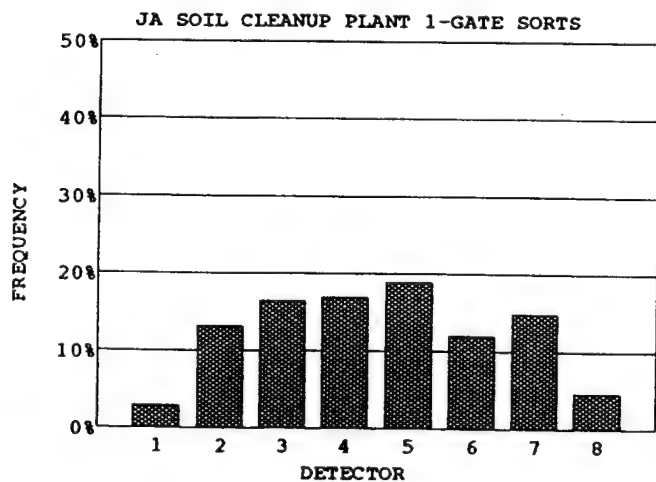
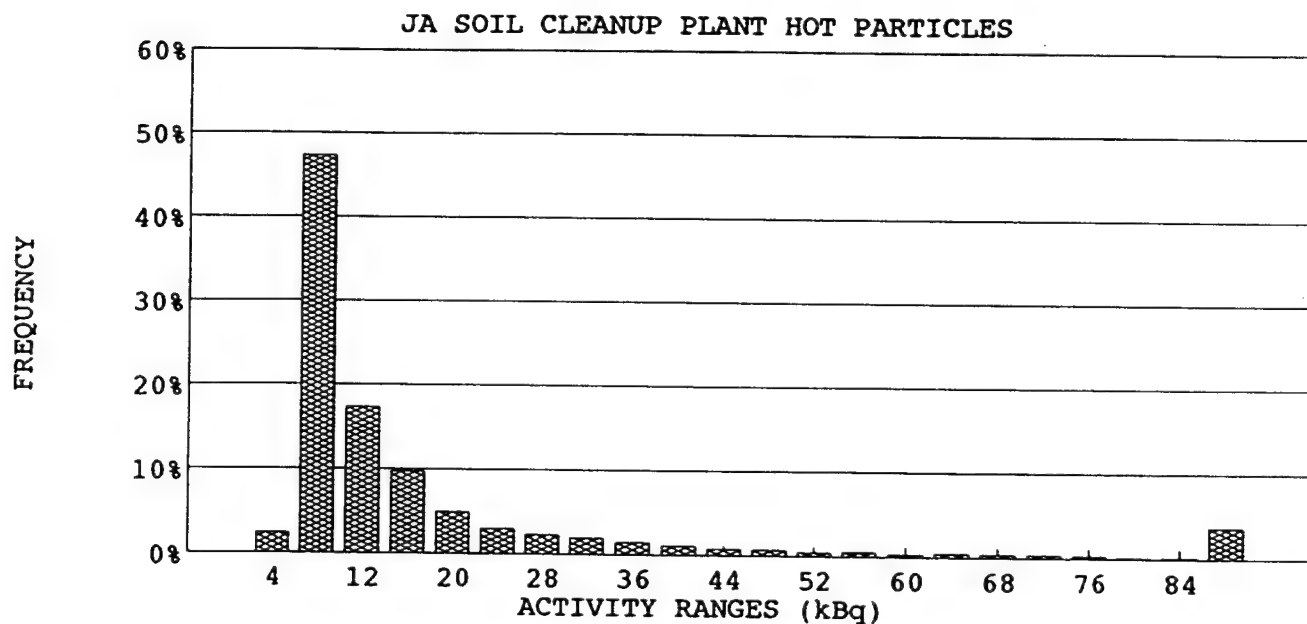
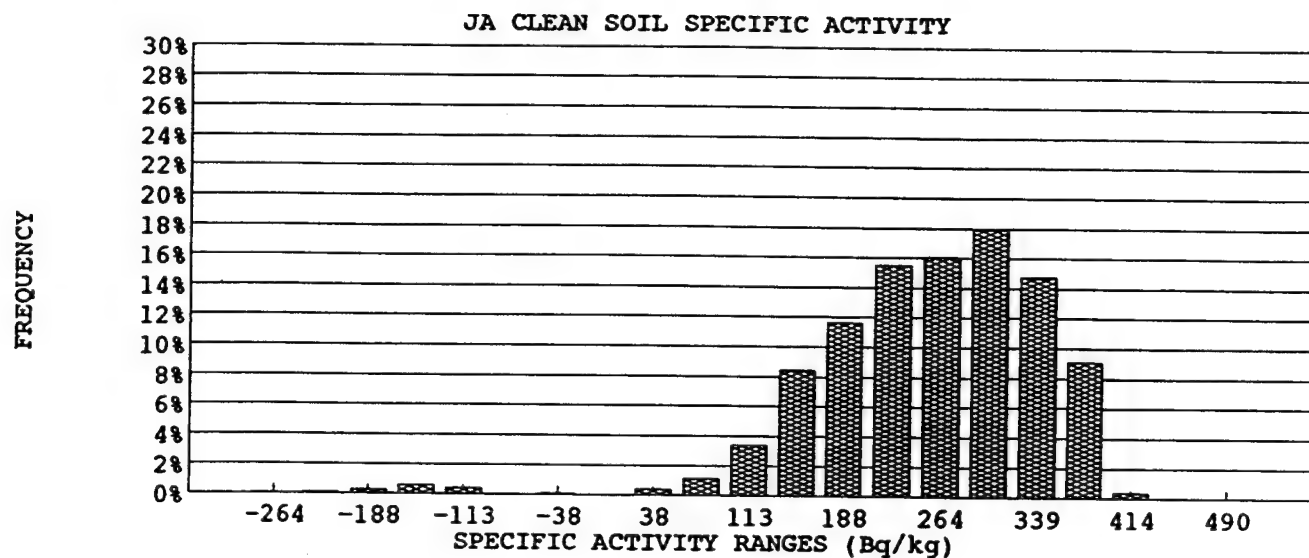
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.3 hr	9.3 hr	0.0 hr	0.0 hr	18.7 hr
SORTER START-UP	06:30	06:30	NA	NA	
START SOIL PROCESSING	06:38	06:38	NA	NA	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.3 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:09	16:10	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.3 hr
ACTUAL PROCESS HOURS	8.3 hr	8.2 hr	0.0 hr	0.0 hr	16.5 hr
DOWN-TIME	1.0 hr	1.1 hr	0.0 hr	0.0 hr	2.1 hr
SYSTEM PAUSE	1.2 hr	1.3 hr	0.0 hr	0.0 hr	2.6 hr
SORTER NONAVAILABLE TIME	0.7 hr	0.7 hr	10.0 hr	10.0 hr	21.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					88.6%
PRODUCTIVITY					41.3%

PRODUCTIVITY

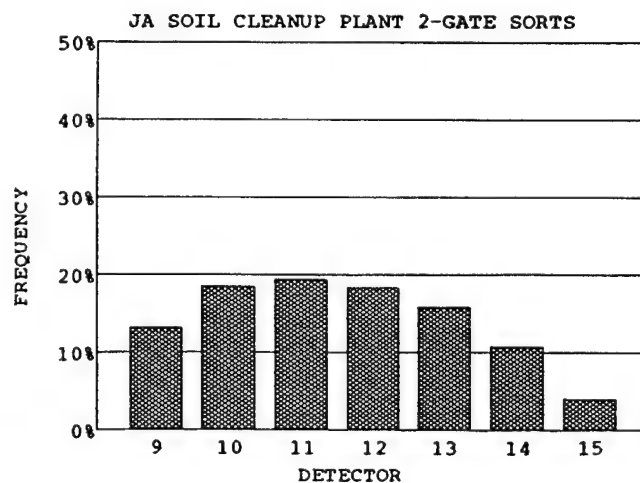
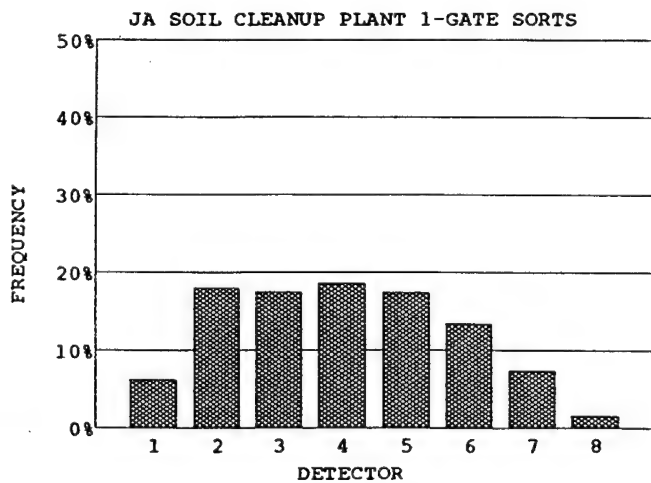
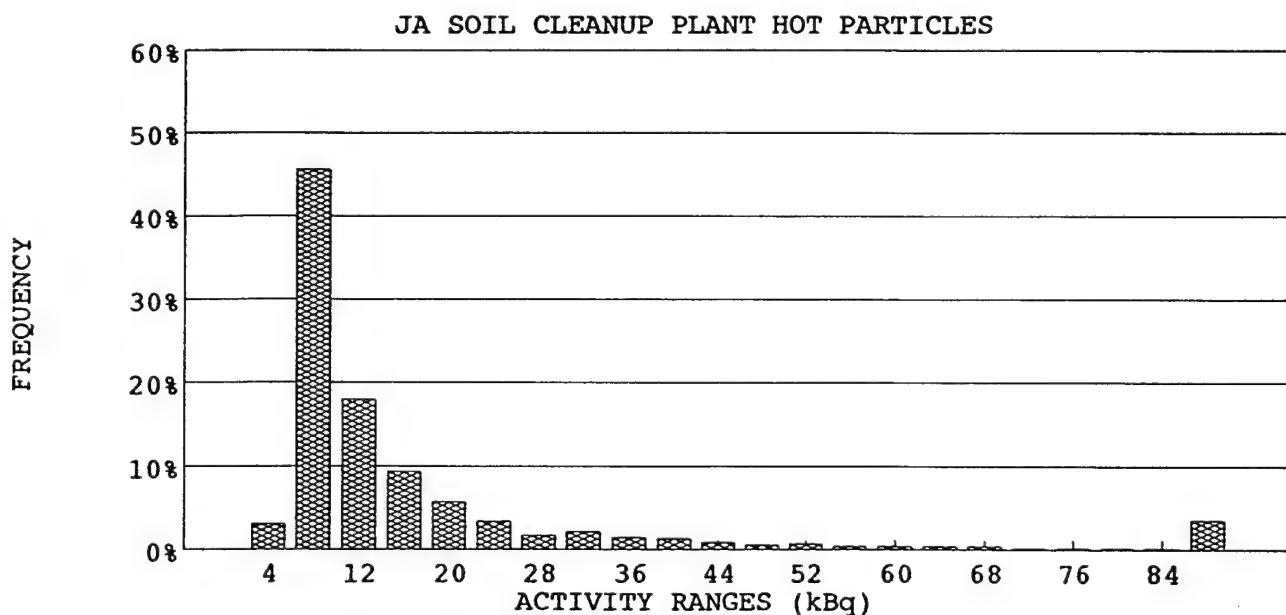
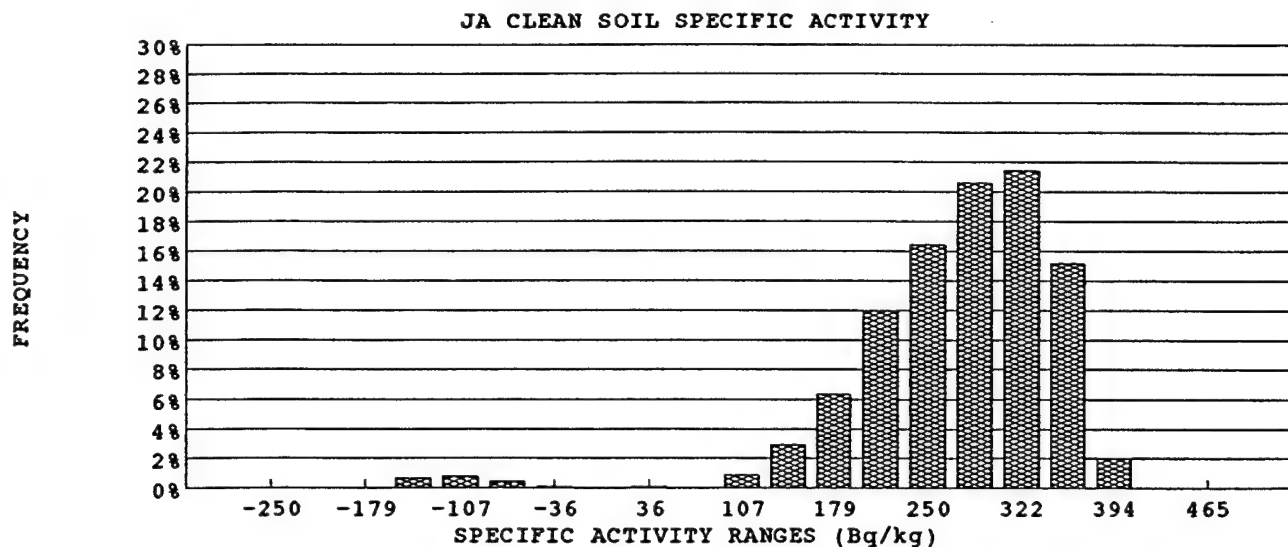
Date	17-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	285	Excused delays for contract (sorter-hrs)	5,132 hr
Current Contract week	48	Excused delay days (plant-days)	128 days
		Excused delay months (plant-month)	4.94 months
Soil production for Day	159 MT		
Cumulative Soil Production for Week	446 MT	Percent of contract completed	56.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,722 MT
Since 6 Sep 93	55,140 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	56,731 MT		
Total Soil production for project	83,018 MT		

MT = metric tons

SORTER 1				17-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.70 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		24.4 tons		55.2 tons		79.6 tons			
MAXIMUM/SORT		53.1 kg		53.1 kg					
MINIMUM/SORT		0.7 kg		43.1 kg					
VOLUME IN-GROUND		19.3 yd ³		43.8 yd ³		63.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		69.4%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		96,010 kBq		32,228 kBq		13,811 kBq			
MAXIMUM/SORT		3,652 kBq		1,264 kBq		20 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-3 kBq			
SPECIFIC ACTIVITY				1,324 Bq/kg		250 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,499		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				423		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				299		06:40 06:35			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				777		07:36 10:48			
UNEXPLAINED RECORDS				0		07:47 13:16			
0<AD<1kBq & MD>0				5		08:51 15:11			
AD=0 & MD>0				0		13:54			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,990					
2-SEC RECORDS WITH SORTS				4,435					
2-SEC RECORDS WITHOUT SORTS				10,555					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,934					
NONPROCESSING RECORDS (Test, calibration, etc)				15					
2-SEC SORT DETECTORS									
1 DET		3,049	68.75%	5 DET	17	0.38%			
2 DET		1,034	23.31%	6 DET	0	0.00%			
3 DET		273	6.16%	7 DET	1	0.02%			
4 DET		62	1.40%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				9.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	65	2.9%	-14000	0	-264	0.0%	4	106	2.4%
2	293	13.2%	-12000	1	-226	0.1%	8	2,100	47.4%
3	367	16.5%	-10000	3	-188	0.3%	12	770	17.4%
4	378	17.0%	-8000	6	-151	0.6%	16	431	9.7%
5	421	18.9%	-6000	4	-113	0.4%	20	219	4.9%
6	267	12.0%	-4000	0	-75	0.0%	24	134	3.0%
7	331	14.9%	-2000	1	-38	0.1%	28	102	2.3%
8	102	4.6%	0	0	0	0.0%	32	85	1.9%
TOTAL	2,224		2000	4	38	0.4%	36	64	1.4%
			4000	12	75	1.1%	40	49	1.1%
			6000	37	113	3.4%	44	33	0.7%
2-GATE SORTS			8000	92	151	8.4%	48	32	0.7%
DET	SORTS	FREQ%	10000	127	188	11.7%	52	22	0.5%
9	182	8.2%	12000	169	226	15.5%	56	26	0.6%
10	334	15.1%	14000	175	264	16.1%	60	13	0.3%
11	383	17.3%	16000	195	301	17.9%	64	21	0.5%
12	378	17.1%	18000	161	339	14.8%	68	16	0.4%
13	387	17.5%	20000	99	377	9.1%	72	16	0.4%
14	311	14.1%	22000	4	414	0.4%	76	14	0.3%
15	236	10.7%	24000	0	452	0.0%	80	8	0.2%
TOTAL	2,211		26000	0	490	0.0%	84	9	0.2%
			>28000	0	0	0.0%	>84	165	3.7%
			TOTAL	1,090			TOTAL	4,435	
EVENT TYPES		HPE	4,283	MPE	1,468	DISE	30,931		



SORTER 2				17-Aug-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.78 ±	0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		34.3 tons		44.8 tons		79.1 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.7 kg					
VOLUME IN-GROUND		27.2 yd³		35.5 yd³		62.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		56.6%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		114,101 kBq		41,941 kBq		12,634 kBq			
MAXIMUM/SORT		2,690 kBq		1,062 kBq		21 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-10 kBq			
SPECIFIC ACTIVITY				1,223 Bq/kg		282 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,477		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				609		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				239		08:04 06:35			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,119		08:25 10:47			
UNEXPLAINED RECORDS (490)						09:42 13:16			
0<AD<1kBq & MD>0				4		09:48 15:05			
AD=0 & MD>0				1		10:02			
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,770					
2-SEC RECORDS WITH SORTS				5,011					
2-SEC RECORDS WITHOUT SORTS				9,759					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				6,488					
NONPROCESSING RECORDS (Test, calibration, etc)				16					
2-SEC SORT DETECTORS									
1 DET		3,467	69.19%	5 DET	19	0.38%			
2 DET		1,179	23.53%	6 DET	0	0.00%			
3 DET		285	5.69%	7 DET	0	0.00%			
4 DET		61	1.22%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				8.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	154	6.2%	-14000	0	-250	0.0%	4	157	3.1%
2	443	18.0%	-12000	0	-215	0.0%	8	2,287	45.6%
3	432	17.5%	-10000	0	-179	0.0%	12	899	17.9%
4	458	18.6%	-8000	6	-143	0.7%	16	470	9.4%
5	429	17.4%	-6000	7	-107	0.8%	20	286	5.7%
6	330	13.4%	-4000	4	-72	0.5%	24	172	3.4%
7	181	7.3%	-2000	1	-36	0.1%	28	86	1.7%
8	39	1.6%	0	0	0	0.0%	32	111	2.2%
TOTAL	2,466		2000	1	36	0.1%	36	76	1.5%
			4000	0	72	0.0%	40	65	1.3%
2-GATE SORTS		6000	8	107	0.9%	44	43	0.9%	
DET	SORTS	FREQ%	8000	26	143	2.9%	48	27	0.5%
9	334	13.1%	10000	56	179	6.3%	52	37	0.7%
10	472	18.5%	12000	106	215	12.0%	56	19	0.4%
11	495	19.4%	14000	145	250	16.4%	60	19	0.4%
12	466	18.3%	16000	182	286	20.6%	64	21	0.4%
13	403	15.8%	18000	189	322	21.4%	68	21	0.4%
14	273	10.7%	20000	134	358	15.2%	72	8	0.2%
15	102	4.0%	22000	18	394	2.0%	76	7	0.1%
TOTAL	2,545		24000	0	429	0.0%	80	11	0.2%
			26000	0	465	0.0%	84	9	0.2%
			>28000	0	0	0.0%	>84	180	3.6%
			TOTAL	883			TOTAL	5,011	
EVENT TYPES		HPE	4,747	MPE	1,919	DISE	44,460		



WORK HISTORY - JA SOIL CLEANUP PLANT

18-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

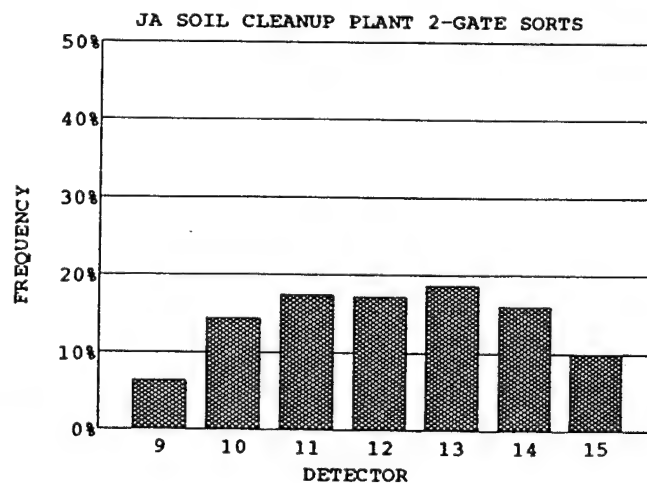
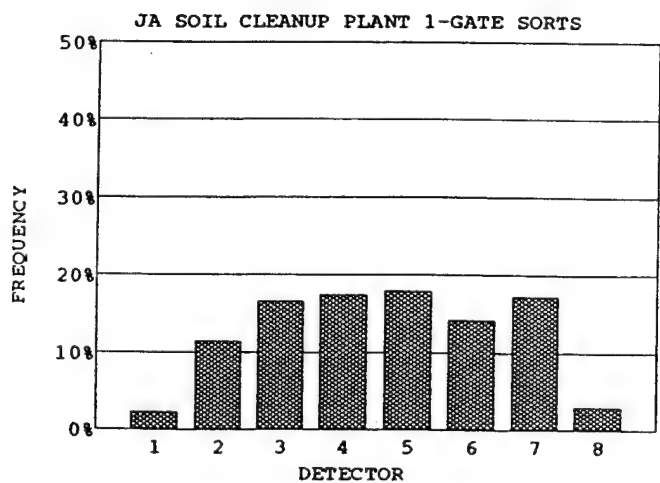
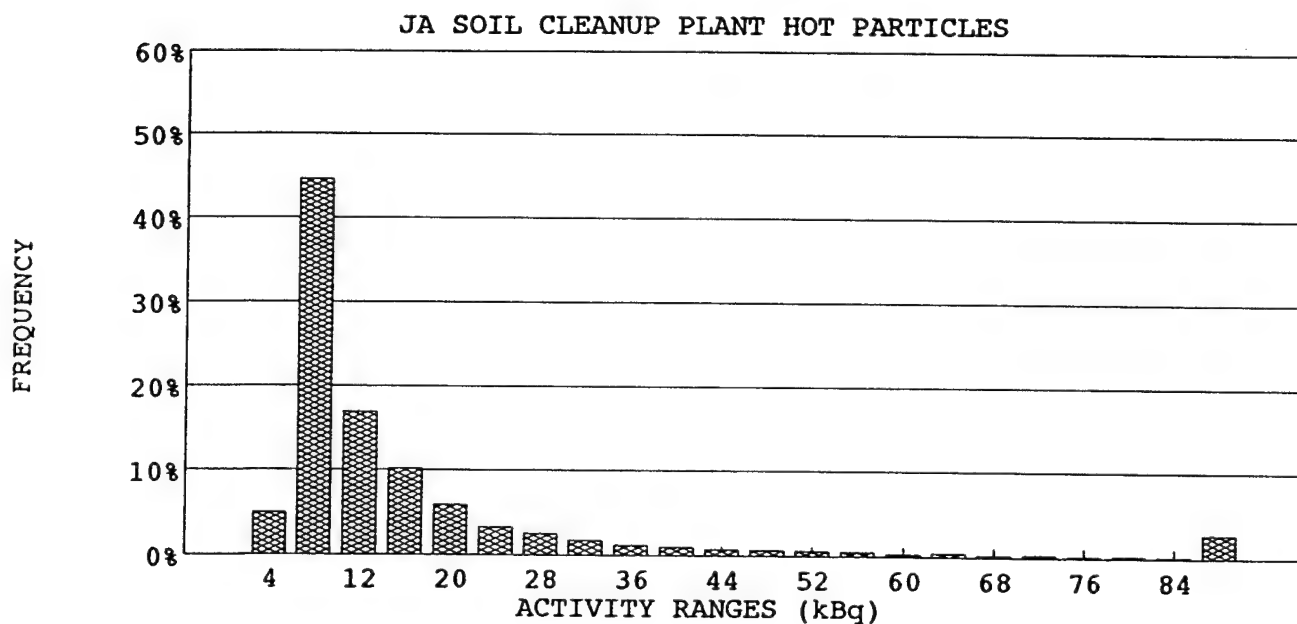
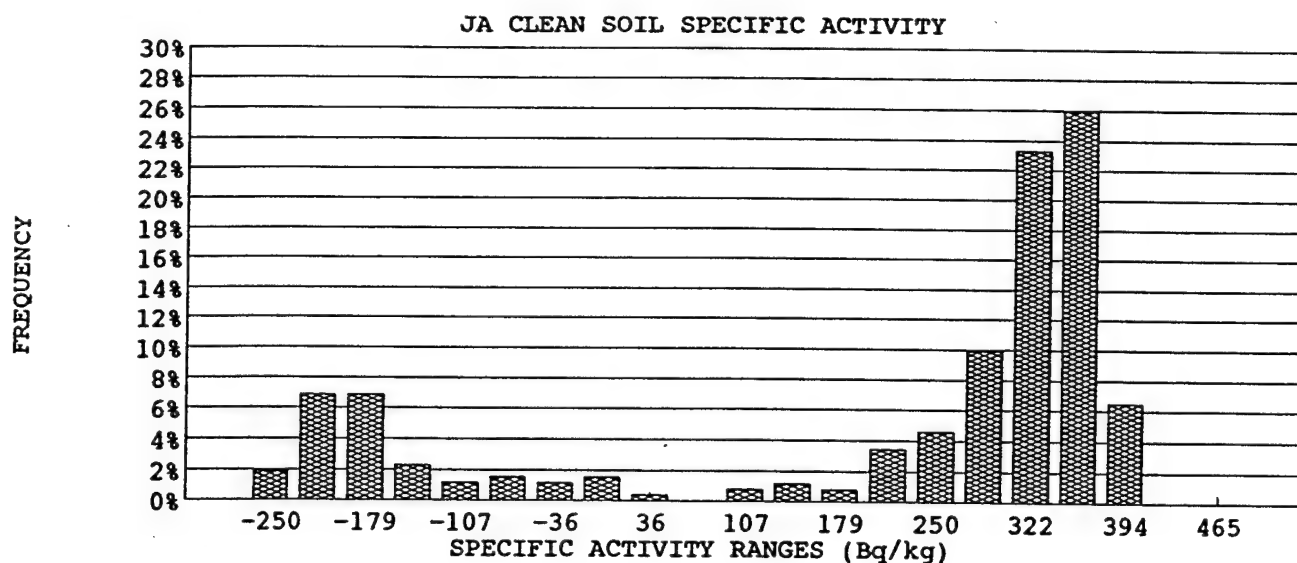
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	9.7 hr	9.7 hr	0.0 hr	0.0 hr	19.3 hr
SORTER START-UP	06:15	06:15	NA	NA	
START SOIL PROCESSING	06:35	06:35	NA	NA	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.7 hr
SORTER SHUT-DOWN	16:25	16:25	NA	NA	
END SOIL PROCESSING	16:19	16:19	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
ACTUAL PROCESS HOURS	7.7 hr	7.7 hr	0.0 hr	0.0 hr	15.4 hr
DOWN-TIME	2.0 hr	2.0 hr	0.0 hr	0.0 hr	4.0 hr
SYSTEM PAUSE	1.9 hr	1.9 hr	0.0 hr	0.0 hr	3.7 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	10.0 hr	10.0 hr	20.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					79.5%
PRODUCTIVITY					38.4%

PRODUCTIVITY

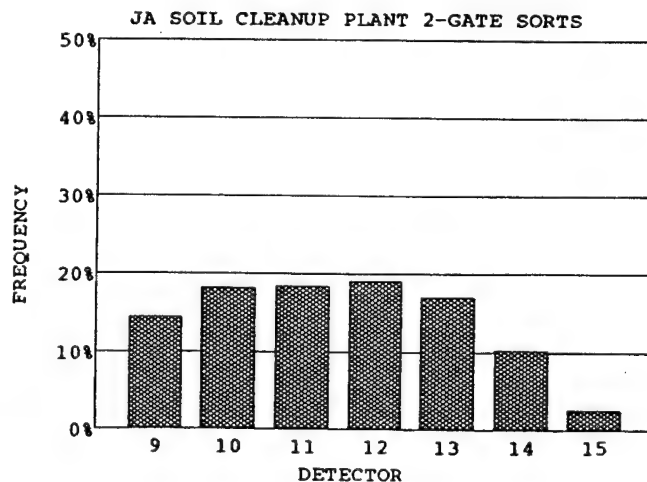
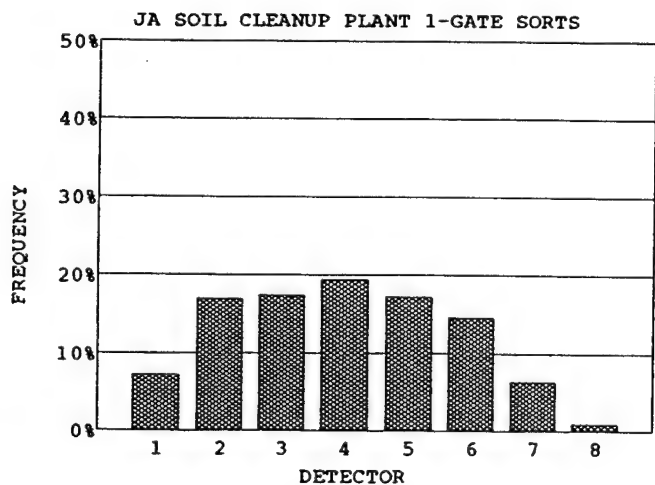
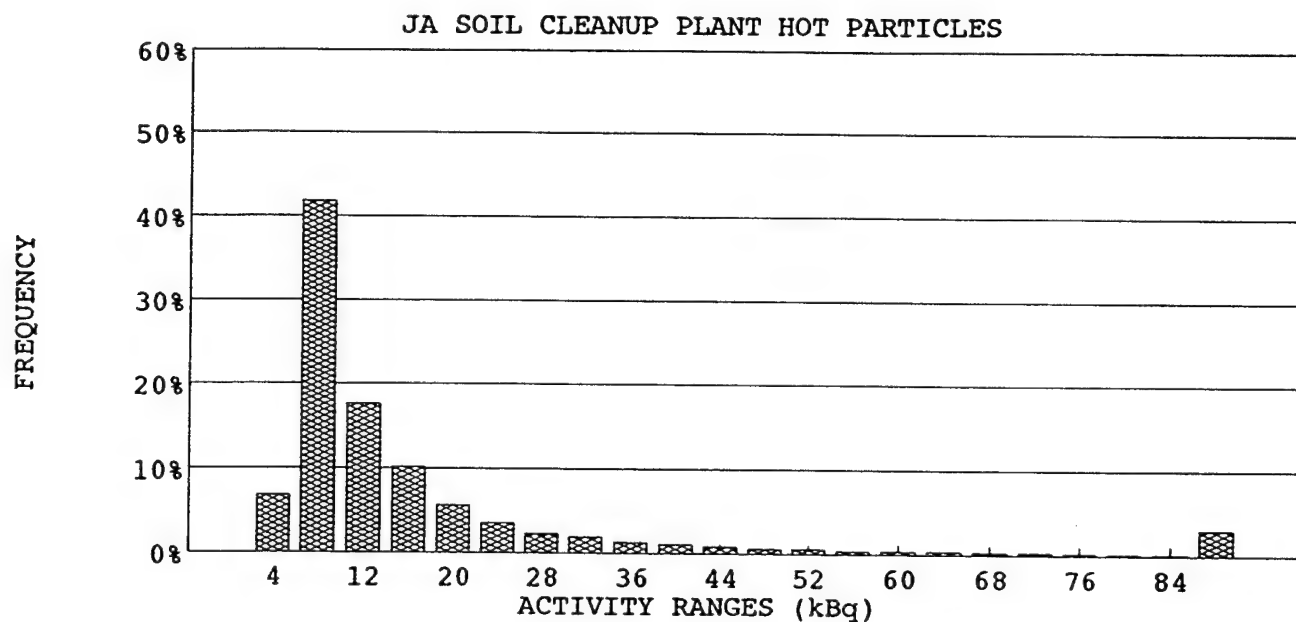
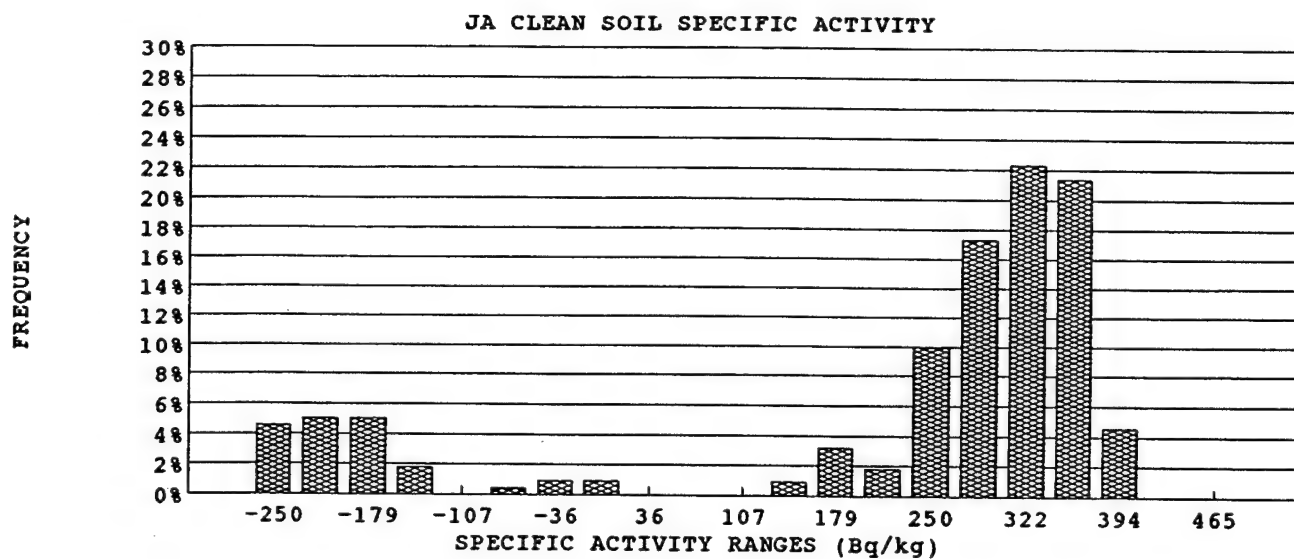
Date	18-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	286	Excused delays for contract (sorter-hrs)	5,152 hr
Current Contract week	48	Excused delay days (plant-days)	129 days
		Excused delay months (plant-month)	4.95 months
Soil production for Day	155 MT		
Cumulative Soil Production for Week	601 MT	Percent of contract completed	56.9%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,719 MT
Since 6 Sep 93	55,295 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	56,886 MT		
Total Soil production for project	83,172 MT		

MT = metric tons

SORTER 1				18-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.75 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		66.0 tons		11.1 tons		77.1 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		17.5 kg					
VOLUME IN-GROUND		52.3 yd ³		8.8 yd ³		61.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		14.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		353,618 kBq		152,262 kBq		3,304 kBq			
MAXIMUM/SORT		5,593 kBq		2,348 kBq		21 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-12 kBq			
SPECIFIC ACTIVITY				2,306 Bq/kg		297 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,381		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,166		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				12		None 07:50			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				211		09:19			
UNEXPLAINED RECORDS (8)						10:10			
0<AD<1kBq & MD>0				0		11:00			
AD=0 & MD>0				0		12:41			
AD<0 & MD >0				0		13:31			
2-SEC COUNT PERIODS				13,810		14:52			
2-SEC RECORDS WITH SORTS				18,212		14:54			
2-SEC RECORDS WITHOUT SORTS				(4,402)		14:55			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				19,593		15:11			
NONPROCESSING RECORDS (Test, calibration, etc)				47		16:04			
2-SEC SORT DETECTORS									
1 DET		10,704	58.77%	5 DET		214	1.18%		
2 DET		4,973	27.31%	6 DET		0	0.00%		
3 DET		1,753	9.63%	7 DET		4	0.02%		
4 DET		568	3.12%	8 DET		1	0.01%		
AVERAGE TIME BETWEEN 2-SEC SORTS				2.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	205	2.2%	-14000	5	-250	1.9%	4	920	5.1%
2	1,049	11.4%	-12000	18	-215	6.9%	8	8,131	44.6%
3	1,523	16.6%	-10000	18	-179	6.9%	12	3,072	16.9%
4	1,599	17.4%	-8000	6	-143	2.3%	16	1,850	10.2%
5	1,645	17.9%	-6000	3	-107	1.1%	20	1,082	5.9%
6	1,309	14.2%	-4000	4	-72	1.5%	24	602	3.3%
7	1,588	17.3%	-2000	3	-36	1.1%	28	463	2.5%
8	272	3.0%	0	4	0	1.5%	32	325	1.8%
TOTAL	9,190		2000	1	36	0.4%	36	230	1.3%
			4000	0	72	0.0%	40	179	1.0%
2-GATE SORTS			6000	2	107	0.8%	44	148	0.8%
DET	SORTS	FREQ%	8000	3	143	1.1%	48	125	0.7%
9	576	6.4%	10000	2	179	0.8%	52	111	0.6%
10	1,299	14.4%	12000	9	215	3.4%	56	104	0.6%
11	1,570	17.4%	14000	12	250	4.6%	60	61	0.3%
12	1,551	17.2%	16000	26	286	9.9%	64	79	0.4%
13	1,686	18.7%	18000	61	322	23.3%	68	50	0.3%
14	1,444	16.0%	20000	68	358	26.0%	72	55	0.3%
15	896	9.9%	22000	17	394	6.5%	76	36	0.2%
TOTAL	9,022		24000	0	429	0.0%	80	44	0.2%
			26000	0	465	0.0%	84	37	0.2%
			>28000	0	0	0.0%	>84	508	2.8%
			TOTAL	262			TOTAL	18,212	
EVENT TYPES		HPE	15,607	MPE	19,079	DISE	59,843		



SORTER 2				18-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.84 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		68.1 tons		9.5 tons		77.5 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		31.4 kg					
VOLUME IN-GROUND		54.0 yd ³		7.5 yd ³		61.5 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		12.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		459,799 kBq		184,300 kBq		2,882 kBq			
MAXIMUM/SORT		18,166 kBq		7,681 kBq		22 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-11 kBq			
SPECIFIC ACTIVITY				2,707 Bq/kg		305 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,387		UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1,203		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				11		None	07:49		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				172			08:18		
UNEXPLAINED RECORDS				1			09:18		
0<AD<1kBq & MD>0				0			10:10		
AD=0 & MD>0				0			11:00		
AD<0 & MD >0				0			12:41		
2-SEC COUNT PERIODS				13,870			13:31		
2-SEC RECORDS WITH SORTS				20,082			15:11		
2-SEC RECORDS WITHOUT SORTS				(6,212)			15:12		
TOTAL PROCESS RECORDS (2--s SORTS and 20--s PERIODS)				21,469			16:07		
NONPROCESSING RECORDS (Test, calibration, etc)				36					
2-SEC SORT DETECTORS									
1 DET		11,712	58.32%	5 DET	227	1.13%			
2 DET		5,539	27.58%	6 DET	0	0.00%			
3 DET		1,994	9.93%	7 DET	7	0.03%			
4 DET		610	3.04%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				2.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	726	7.2%	-14000	10	-250	4.5%	4	1,367	6.8%
2	1,704	16.9%	-12000	11	-215	5.0%	8	8,377	41.7%
3	1,756	17.4%	-10000	11	-179	5.0%	12	3,529	17.6%
4	1,953	19.4%	-8000	4	-143	1.8%	16	2,034	10.1%
5	1,728	17.2%	-6000	0	-107	0.0%	20	1,138	5.7%
6	1,467	14.6%	-4000	1	-72	0.5%	24	725	3.6%
7	643	6.4%	-2000	2	-36	0.9%	28	475	2.4%
8	90	0.9%	0	2	0	0.9%	32	388	1.9%
TOTAL	10,067		2000	0	36	0.0%	36	267	1.3%
			4000	0	72	0.0%	40	224	1.1%
2-GATE SORTS			6000	0	107	0.0%	44	179	0.9%
DET	SORTS	FREQ%	8000	2	143	0.9%	48	136	0.7%
9	1,444	14.4%	10000	7	179	3.2%	52	130	0.6%
10	1,822	18.2%	12000	4	215	1.8%	56	82	0.4%
11	1,849	18.5%	14000	22	250	10.0%	60	80	0.4%
12	1,910	19.1%	16000	38	286	17.3%	64	79	0.4%
13	1,700	17.0%	18000	49	322	22.3%	68	69	0.3%
14	1,027	10.3%	20000	47	358	21.4%	72	69	0.3%
15	263	2.6%	22000	10	394	4.5%	76	47	0.2%
TOTAL	10,015		24000	0	429	0.0%	80	44	0.2%
			26000	0	465	0.0%	84	38	0.2%
			>28000	0	0	0.0%	>84	605	3.0%
			TOTAL	220			TOTAL	20,082	
EVENT TYPES		HPE	17,223	MPE	23,344	DISE	56,860		



WORK HISTORY - JA SOIL CLEANUP PLANT

19-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

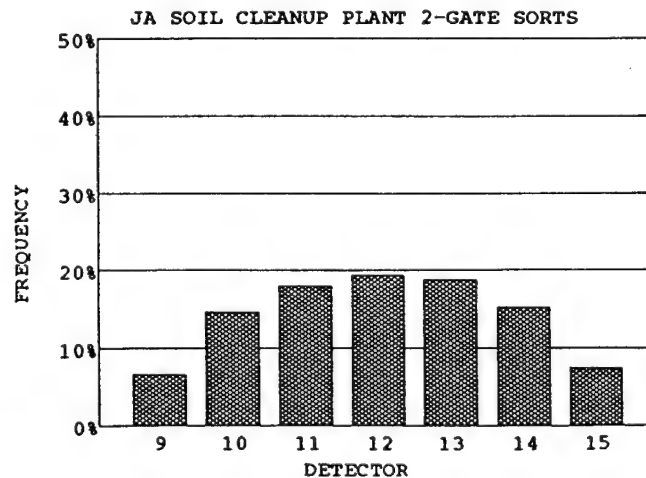
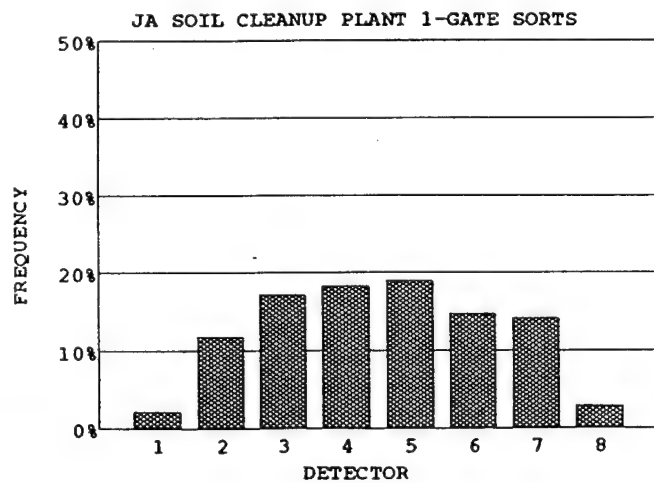
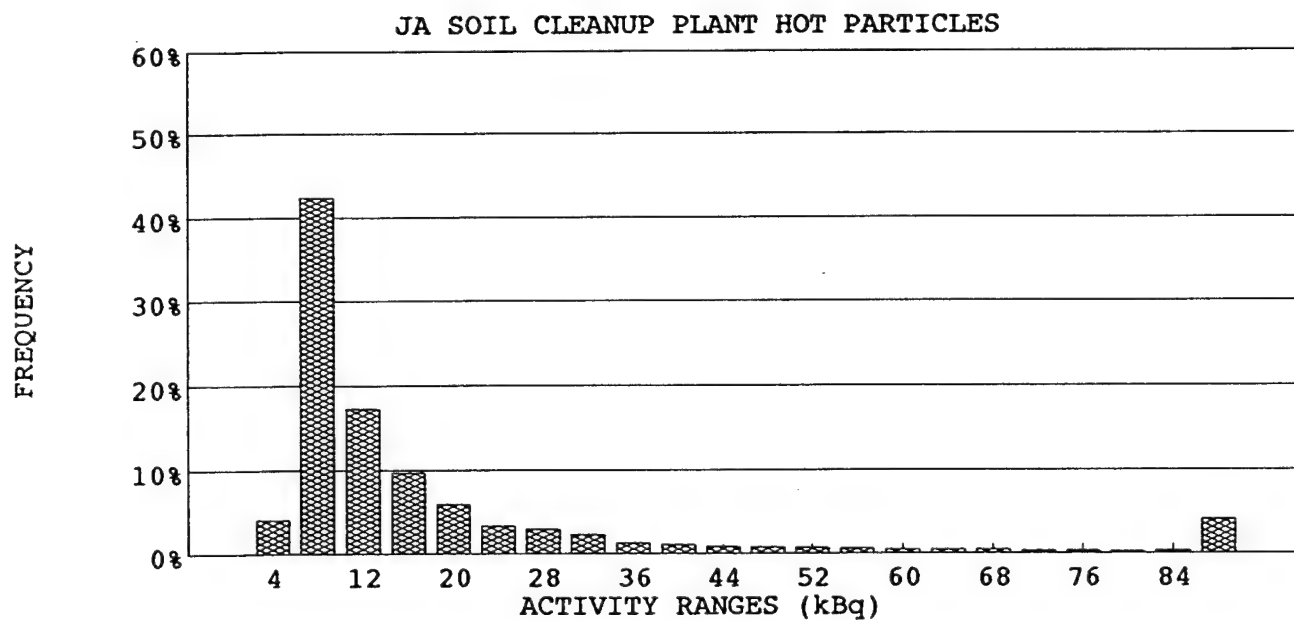
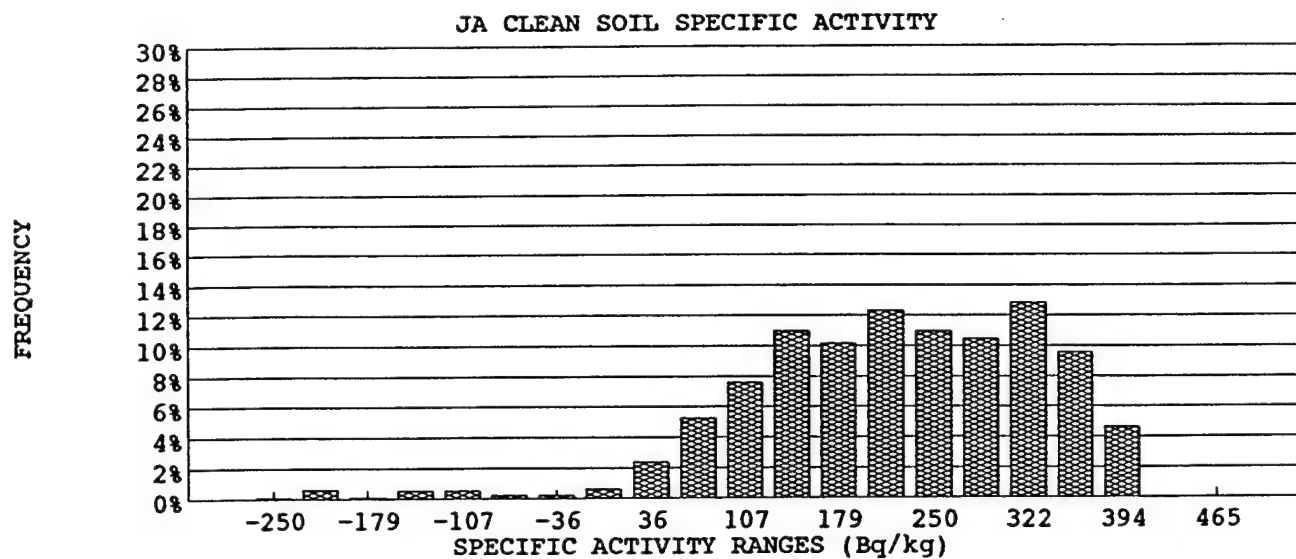
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.0 hr	10.0 hr	0.0 hr	0.0 hr	20.0 hr
SORTER START-UP	06:20	06:20	NA	NA	
START SOIL PROCESSING	06:53	06:54	NA	NA	
TIME REQUIRED TO START-UP	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:12	16:12	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
ACTUAL PROCESS HOURS	8.8 hr	8.7 hr	0.0 hr	0.0 hr	17.5 hr
DOWN-TIME	1.2 hr	1.3 hr	0.0 hr	0.0 hr	2.5 hr
SYSTEM PAUSE	0.4 hr	0.5 hr	0.0 hr	0.0 hr	0.8 hr
SORTER NONAVAILABLE TIME	0.5 hr	0.5 hr	10.0 hr	10.0 hr	21.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	10.0 hr	10.0 hr	20.0 hr
PLANT PERFORMANCE					87.5%
PRODUCTIVITY					41.7%

PRODUCTIVITY

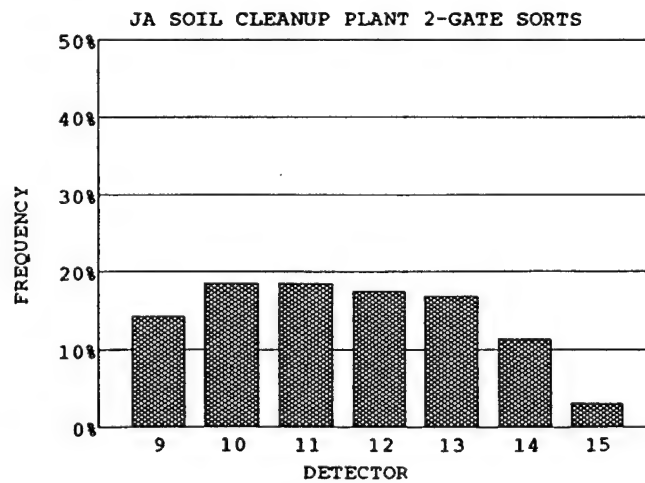
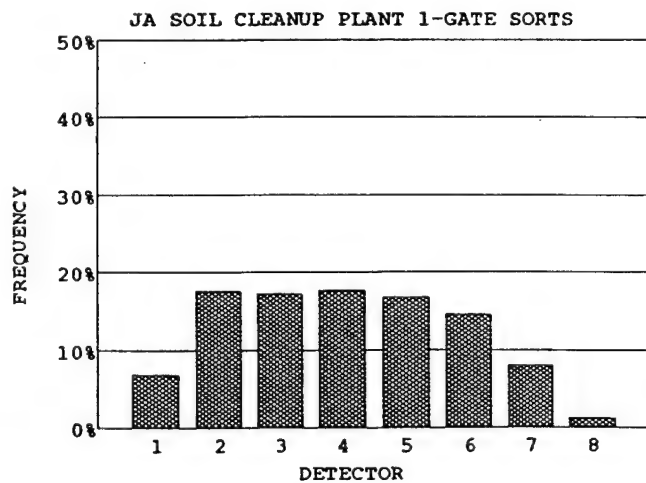
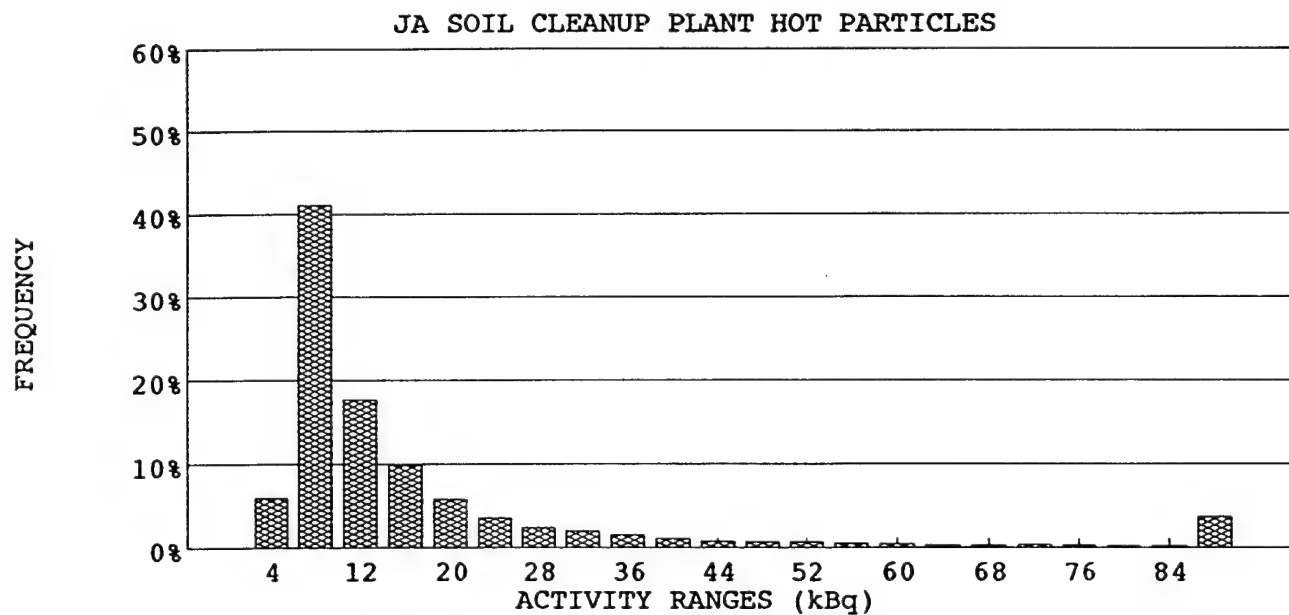
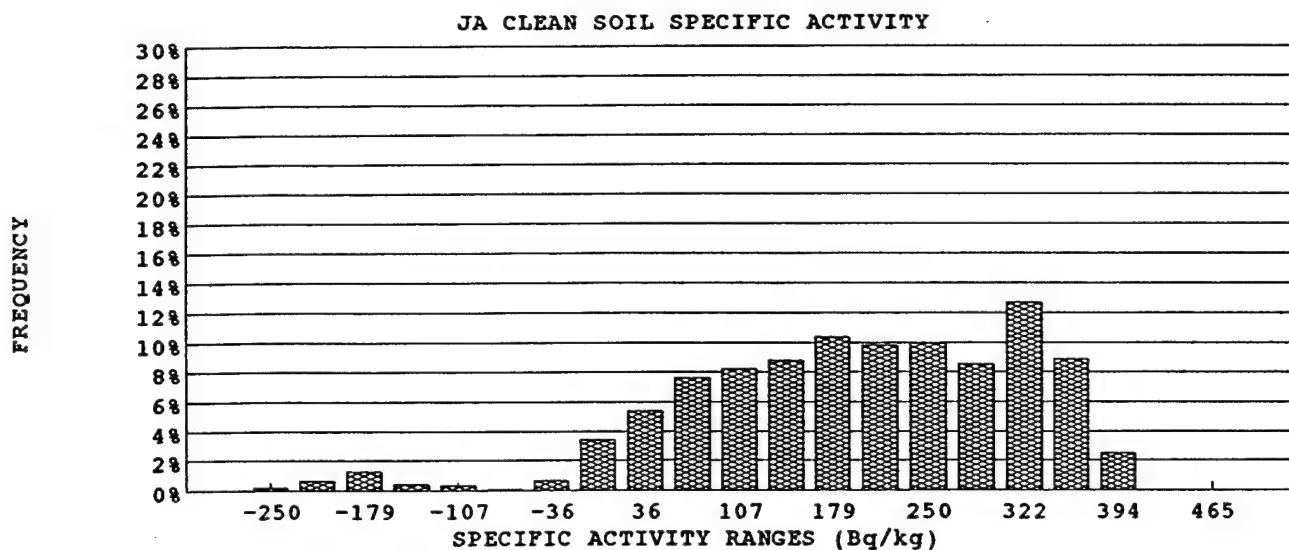
Date	19-Aug-94	Excused Delays for day (sorter-hrs)	20 hr
Contract day (from 6 Sep)	287	Excused delays for contract (sorter-hrs)	5,172 hr
Current Contract week	48	Excused delay days (plant-days)	129 days
		Excused delay months (plant-month)	4.97 months
Soil production for Day	176 MT		
Cumulative Soil Production for Week	777 MT	Percent of contract completed	57.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,736 MT
Since 6 Sep 93	55,471 MT	Days ahead or behind schedule	5.5 days
Since 6 Aug 93	57,062 MT		
Total Soil production for project	83,349 MT		

MT = metric tons

SORTER 1				19-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.72 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		36.5 tons		52.0 tons		88.5 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.7 kg					
VOLUME IN-GROUND		29.0 yd ³		41.2 yd ³		70.2 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		58.7%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		189,209 kBq		70,598 kBq		11,222 kBq			
MAXIMUM/SORT		4,154 kBq		1,816 kBq		22 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				1,932 Bq/kg		216 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,584		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				624		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				305		06:59 07:56			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				655					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				15,840					
2-SEC RECORDS WITH SORTS				8,013					
2-SEC RECORDS WITHOUT SORTS				7,827					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				9,597					
NONPROCESSING RECORDS (Test, calibration, etc)				14					
2-SEC SORT DETECTORS									
1 DET		4,968	62.00%	5 DET	64	0.80%			
2 DET		2,125	26.52%	6 DET	0	0.00%			
3 DET		670	8.36%	7 DET	3	0.04%			
4 DET		186	2.32%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				6.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	85	2.1%	-14000	1	-250	0.1%	4	328	4.1%
2	465	11.7%	-12000	6	-215	0.6%	8	3,400	42.4%
3	681	17.2%	-10000	1	-179	0.1%	12	1,383	17.3%
4	724	18.3%	-8000	5	-143	0.5%	16	777	9.7%
5	749	18.9%	-6000	5	-107	0.5%	20	474	5.9%
6	584	14.8%	-4000	2	-72	0.2%	24	266	3.3%
7	558	14.1%	-2000	2	-36	0.2%	28	234	2.9%
8	112	2.8%	0	6	0	0.6%	32	188	2.3%
TOTAL	3,958		2000	23	36	2.4%	36	109	1.4%
			4000	51	72	5.2%	40	90	1.1%
2-GATE SORTS			6000	74	107	7.6%	44	67	0.8%
DET	SORTS	FREQ%	8000	107	143	11.0%	48	62	0.8%
9	270	6.7%	10000	99	179	10.2%	52	56	0.7%
10	592	14.6%	12000	120	215	12.3%	56	51	0.6%
11	731	18.0%	14000	107	250	11.0%	60	35	0.4%
12	783	19.3%	16000	102	286	10.5%	64	36	0.4%
13	760	18.7%	18000	125	322	12.8%	68	36	0.4%
14	617	15.2%	20000	93	358	9.5%	72	24	0.3%
15	302	7.4%	22000	45	394	4.6%	76	23	0.3%
TOTAL	4,055		24000	0	429	0.0%	80	19	0.2%
			26000	0	465	0.0%	84	24	0.3%
			>28000	0	0	0.0%	>84	331	4.1%
			TOTAL	974			TOTAL	8,013	
EVENT TYPES		HPE	7,176	MPE	6,784	DISE	38,325		



SORTER 2				19-Aug-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.81 ±	0.02 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		41.0 tons		46.6 tons		87.6 tons			
MAXIMUM/SORT		58.1 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		44.0 kg					
VOLUME IN-GROUND		32.5 yd³		37.0 yd³		69.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		53.3%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		210,747 kBq		80,926 kBq		8,783 kBq			
MAXIMUM/SORT		5,694 kBq		2,494 kBq		21 kBq			
MINIMUM/SORT		2 kBq		(24,804)Bq		-14 kBq			
SPECIFIC ACTIVITY				1,976 Bq/kg		188 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,567	UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				701	TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				246	13:47 07:56				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				620	13:49 13:47				
UNEXPLAINED RECORDS				0	14:32 12:07				
0<AD<1kBq & MD>0				3	16:12 12:50				
AD=0 & MD>0				0	16:11				
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				15,670					
2-SEC RECORDS WITH SORTS				9,525					
2-SEC RECORDS WITHOUT SORTS				6,145					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				11,092					
NONPROCESSING RECORDS (Test, calibration, etc)				10					
2-SEC SORT DETECTORS									
1 DET		5,812	61.02%	5 DET	91	0.96%			
2 DET		2,547	26.74%	6 DET	0	0.00%			
3 DET		820	8.61%	7 DET	6	0.06%			
4 DET		255	2.68%	8 DET	1	0.01%			
AVERAGE TIME BETWEEN 2-SEC SORTS				5.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	326	6.8%	-14000	2	-250	0.2%	4	571	6.0%
2	842	17.6%	-12000	6	-215	0.7%	8	3,909	41.0%
3	826	17.3%	-10000	11	-179	1.3%	12	1,684	17.7%
4	843	17.6%	-8000	4	-143	0.5%	16	940	9.9%
5	801	16.8%	-6000	3	-107	0.3%	20	554	5.8%
6	696	14.6%	-4000	1	-72	0.1%	24	341	3.6%
7	384	8.0%	-2000	6	-36	0.7%	28	228	2.4%
8	60	1.3%	0	30	0	3.4%	32	193	2.0%
TOTAL	4,778		2000	47	36	5.4%	36	154	1.6%
			4000	67	72	7.6%	40	108	1.1%
2-GATE SORTS			6000	72	107	8.2%	44	74	0.8%
DET	SORTS	FREQ%	8000	77	143	8.8%	48	73	0.8%
9	674	14.2%	10000	91	179	10.4%	52	65	0.7%
10	879	18.5%	12000	86	215	9.8%	56	52	0.5%
11	877	18.5%	14000	87	250	9.9%	60	44	0.5%
12	832	17.5%	16000	75	286	8.6%	64	32	0.3%
13	800	16.9%	18000	111	322	12.7%	68	30	0.3%
14	538	11.3%	20000	78	358	8.9%	72	37	0.4%
15	147	3.1%	22000	22	394	2.5%	76	30	0.3%
TOTAL	4,747		24000	0	429	0.0%	80	24	0.3%
			26000	0	465	0.0%	84	24	0.3%
			>28000	0	0	0.0%	>84	358	3.8%
			TOTAL	876			TOTAL	9,525	
EVENT TYPES		HPE	8,498	MPE	7,981	DISE	42,122		



WORK HISTORY - JA SOIL CLEANUP PLANT

20-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

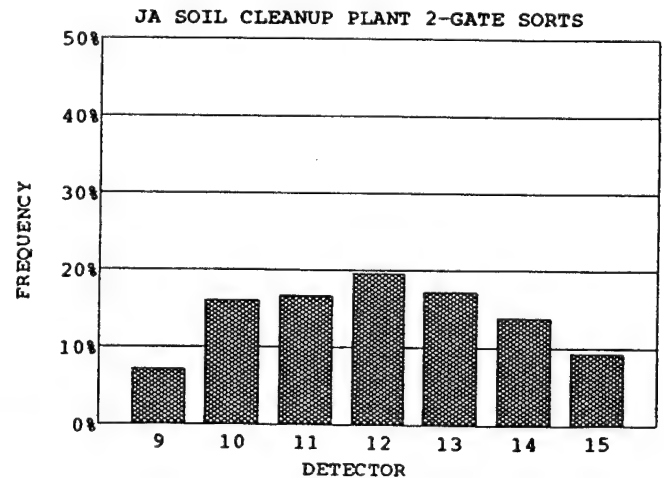
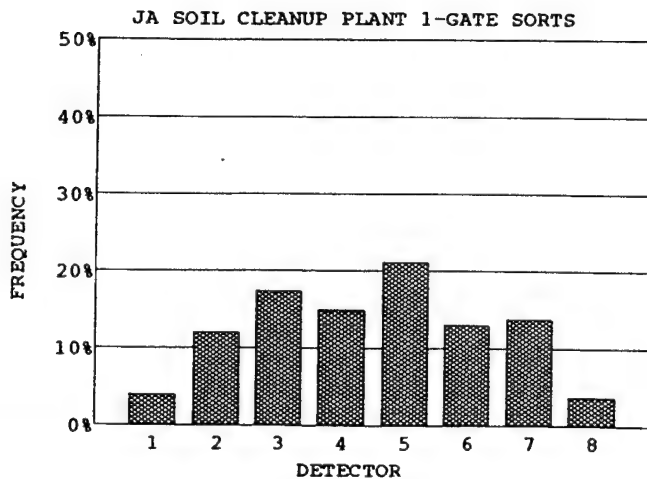
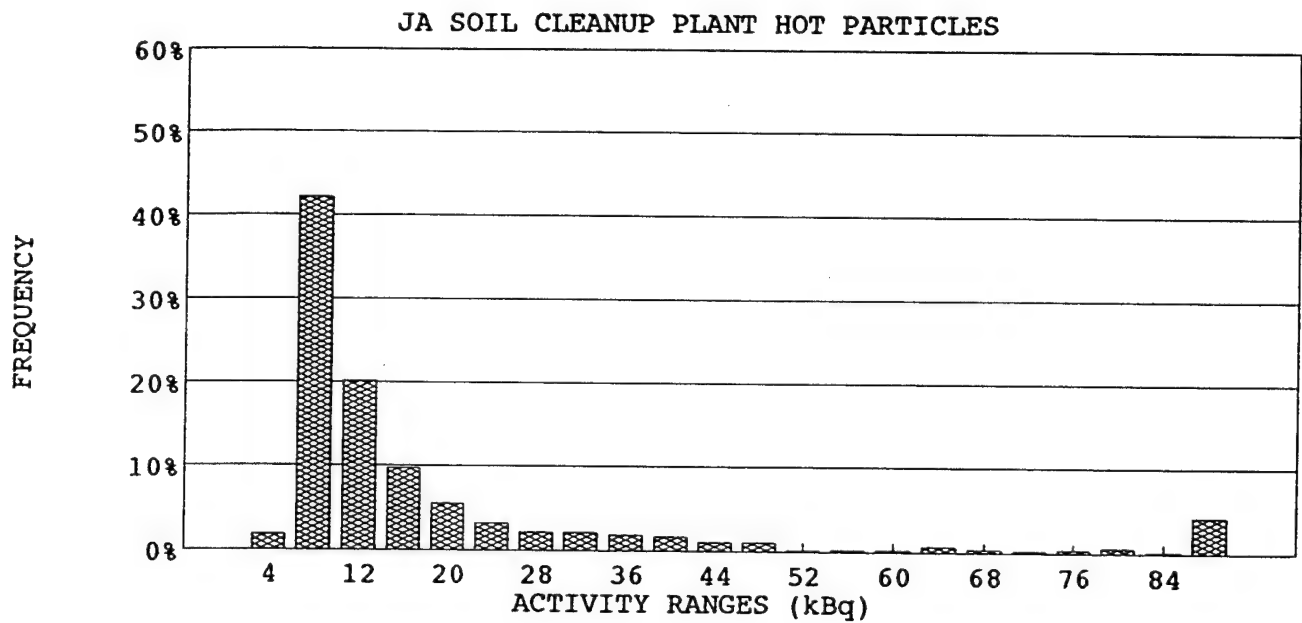
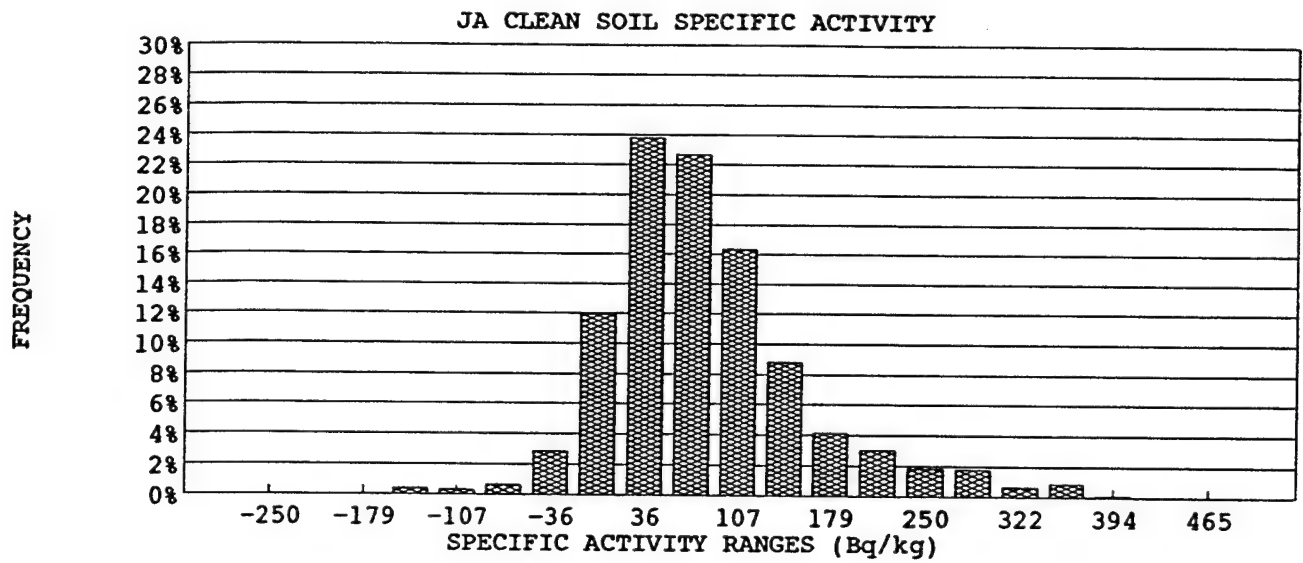
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	7.7 hr	7.7 hr	1.0 hr	1.0 hr	17.3 hr
SORTER START-UP	06:20	06:20	08:10	08:10	
START SOIL PROCESSING	06:26	06:26	08:19	08:19	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.2 hr	0.2 hr	0.5 hr
SORTER SHUT-DOWN	14:30	14:30	09:10	09:10	
END SOIL PROCESSING	14:15	14:11	09:06	09:02	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.3 hr	0.1 hr	0.1 hr	0.7 hr
ACTUAL PROCESS HOURS	6.9 hr	6.8 hr	0.8 hr	0.7 hr	15.3 hr
DOWN-TIME	0.7 hr	0.9 hr	0.2 hr	0.3 hr	2.1 hr
SYSTEM PAUSE	0.9 hr	0.9 hr	0.0 hr	0.0 hr	1.8 hr
SORTER NONAVAILABLE TIME	2.3 hr	2.3 hr	9.0 hr	9.0 hr	22.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	9.0 hr	9.0 hr	18.0 hr
PLANT PERFORMANCE					88.1%
PRODUCTIVITY					38.2%

PRODUCTIVITY

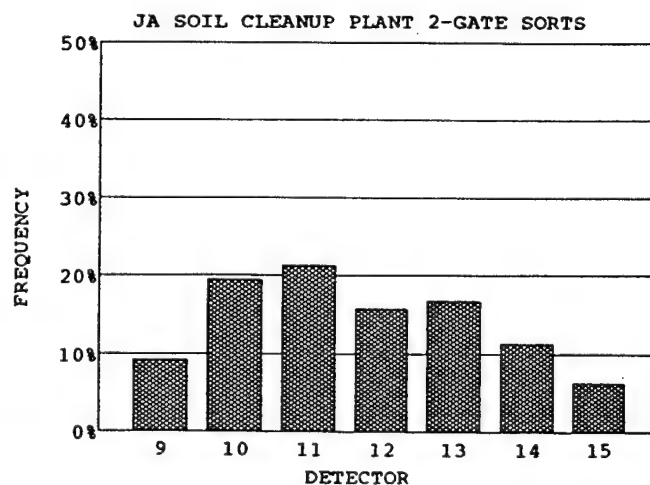
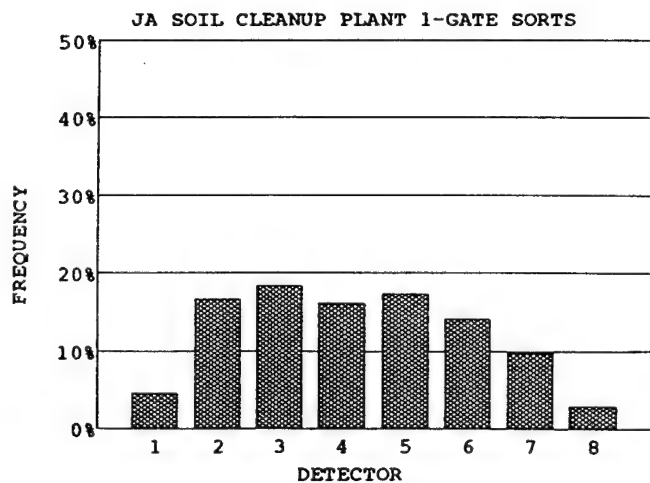
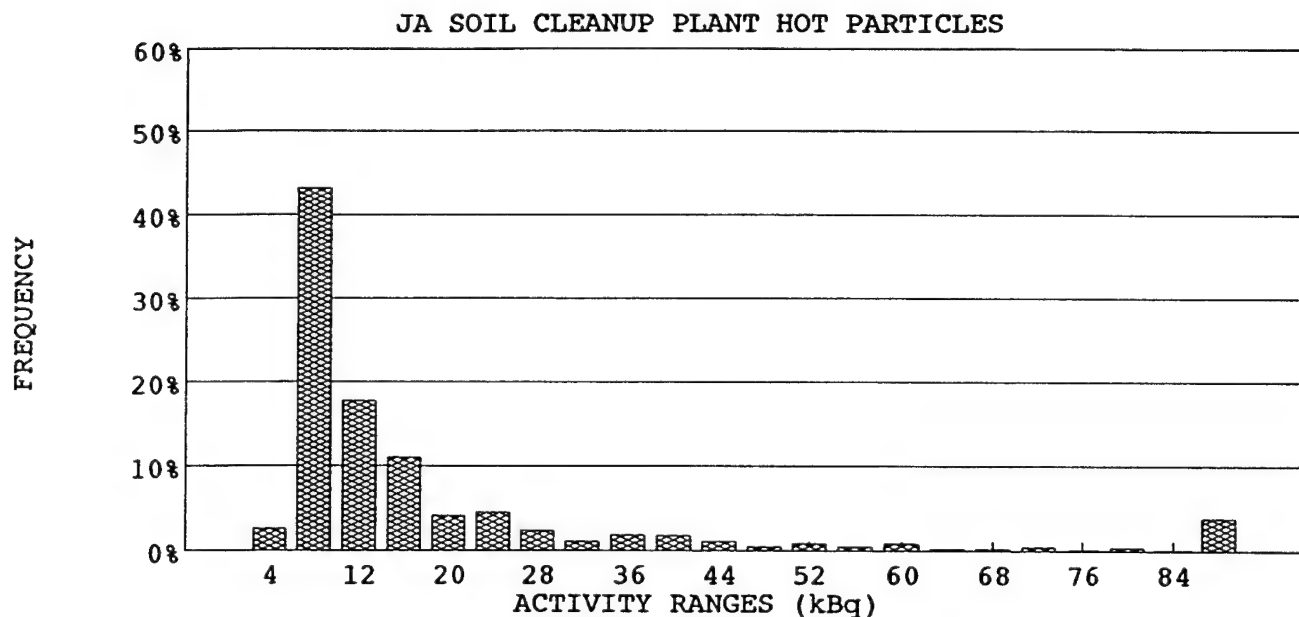
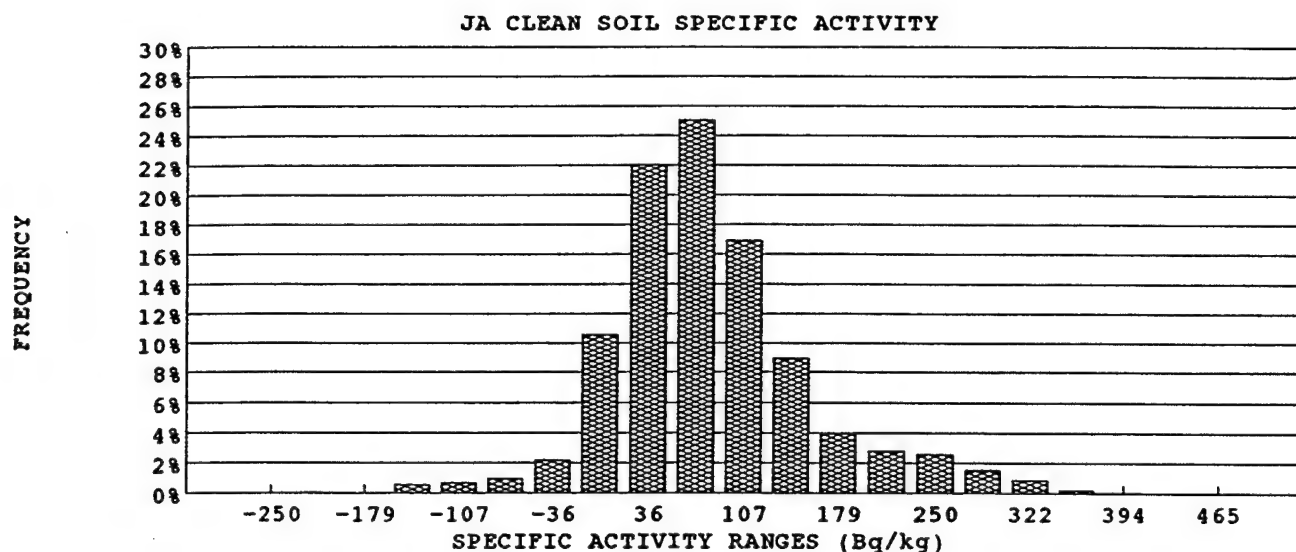
Date	20-Aug-94	Excused Delays for day (sorter-hrs)	18 hr
Contract day (from 6 Sep)	288	Excused delays for contract (sorter-hrs)	5,190 hr
Current Contract week	48	Excused delay days (plant-days)	130 days
		Excused delay months (plant-month)	4.99 months
Soil production for Day	155 MT		
Cumulative Soil Production for Week	932 MT	Percent of contract completed	57.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,717 MT
Since 6 Sep 93	55,626 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	57,217 MT		
Total Soil production for project	83,503 MT		

MT = metric tons

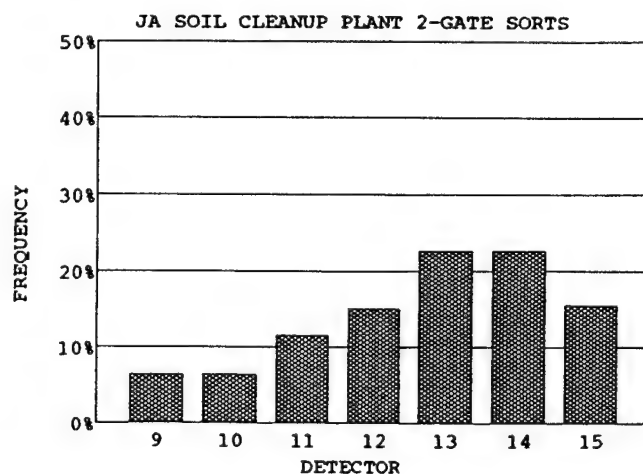
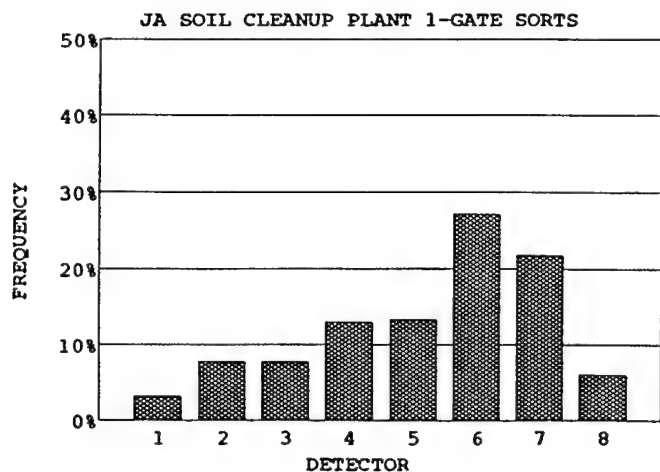
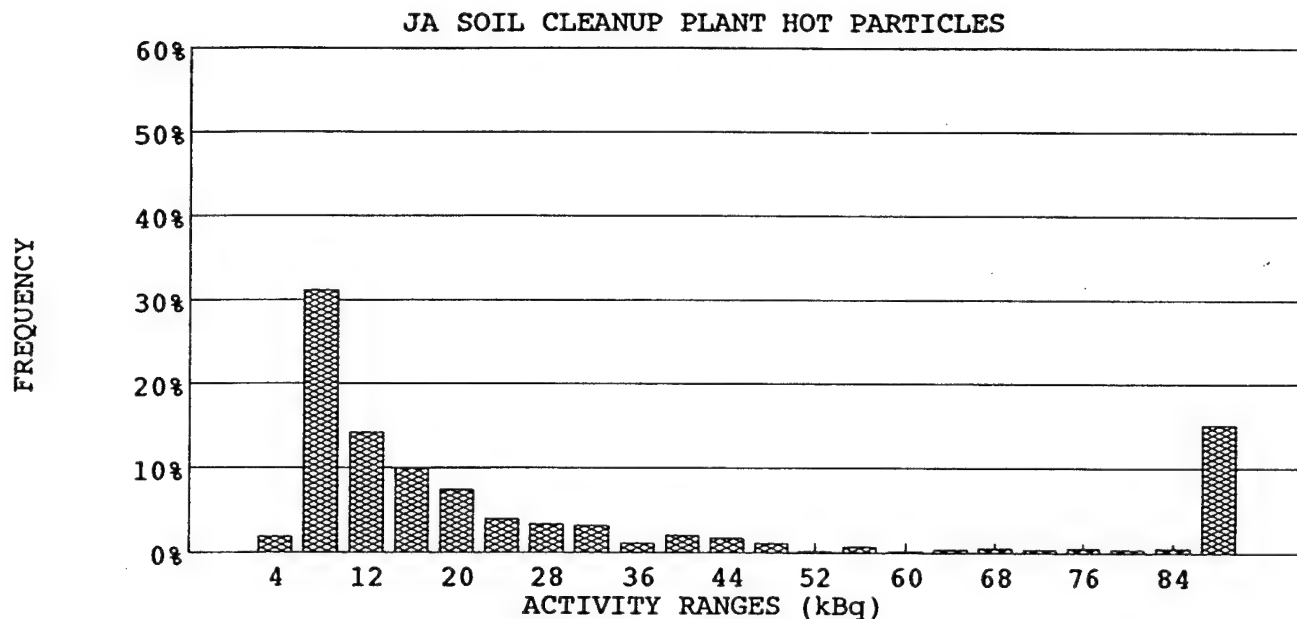
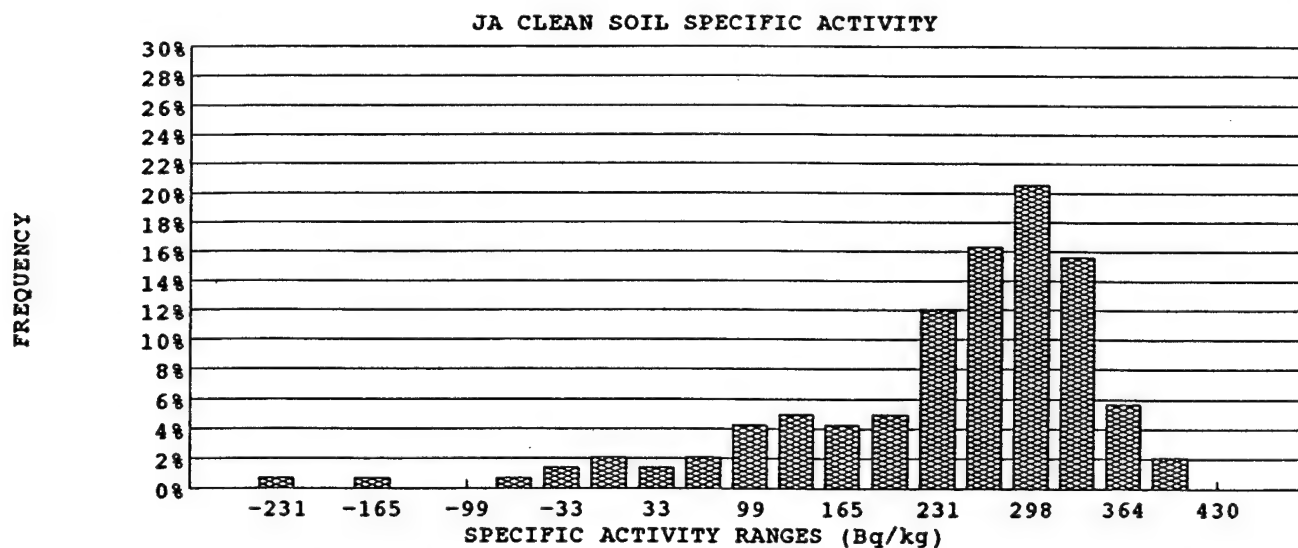
SORTER 1				20-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.70 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.8 tons		69.0 tons		69.8 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		0.7 yd ³		54.7 yd ³		55.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.8%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				31,461 kBq	6,549 kBq	4,542 kBq			
MAXIMUM/SORT				6,039 kBq	2,426 kBq	20 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-6 kBq			
SPECIFIC ACTIVITY					7,904 Bq/kg	66 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,249		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				3		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				871		10:05 11:03			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				375		10:43			
UNEXPLAINED RECORDS				0		12:48			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,490					
2-SEC RECORDS WITH SORTS				825					
2-SEC RECORDS WITHOUT SORTS				11,665					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,074					
NONPROCESSING RECORDS (Test, calibration, etc)				13					
2-SEC SORT DETECTORS									
1 DET		580	70.30%	5 DET	3	0.36%			
2 DET		191	23.15%	6 DET	0	0.00%			
3 DET		39	4.73%	7 DET	0	0.00%			
4 DET		12	1.45%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				43.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	16	3.9%	-14000	0	-250	0.0%	4	15	1.8%
2	49	12.0%	-12000	0	-215	0.0%	8	348	42.2%
3	71	17.4%	-10000	0	-179	0.0%	12	166	20.1%
4	61	15.0%	-8000	5	-143	0.4%	16	80	9.7%
5	86	21.1%	-6000	4	-107	0.3%	20	46	5.6%
6	53	13.0%	-4000	8	-72	0.6%	24	27	3.3%
7	56	13.8%	-2000	36	-36	2.9%	28	18	2.2%
8	15	3.7%	0	150	0	11.9%	32	18	2.2%
TOTAL	407		2000	299	36	23.7%	36	15	1.8%
2-GATE SORTS			4000	285	72	22.6%	40	14	1.7%
			6000	206	107	16.4%	44	9	1.1%
DET	SORTS	FREQ%	8000	111	143	8.8%	48	9	1.1%
9	30	7.2%	10000	52	179	4.1%	52	1	0.1%
10	67	16.0%	12000	38	215	3.0%	56	2	0.2%
11	70	16.7%	14000	23	250	1.8%	60	2	0.2%
12	82	19.6%	16000	22	286	1.7%	64	6	0.7%
13	72	17.2%	18000	8	322	0.6%	68	3	0.4%
14	58	13.9%	20000	11	358	0.9%	72	2	0.2%
15	39	9.3%	22000	1	394	0.1%	76	3	0.4%
TOTAL	418		24000	0	429	0.0%	80	5	0.6%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	35	4.2%
			TOTAL	1,259			TOTAL	825	
EVENT TYPES		HPE	831	MPE	124	DISE	229		



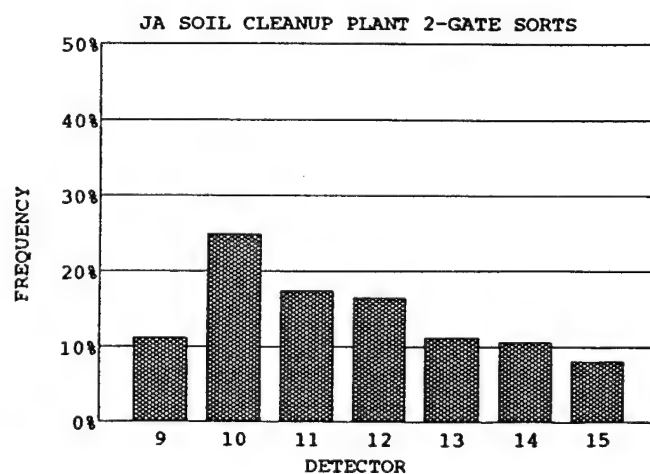
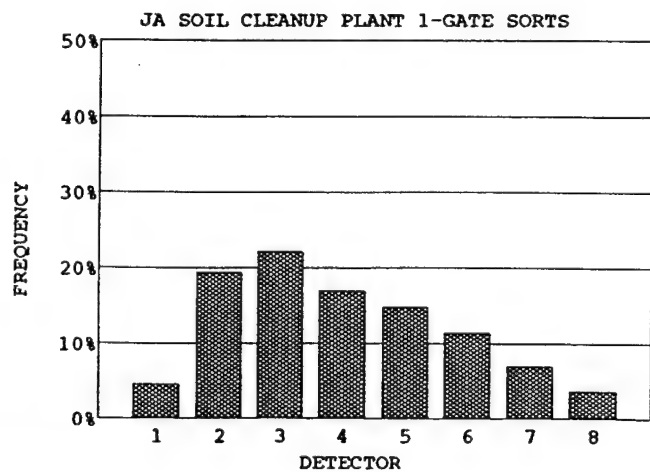
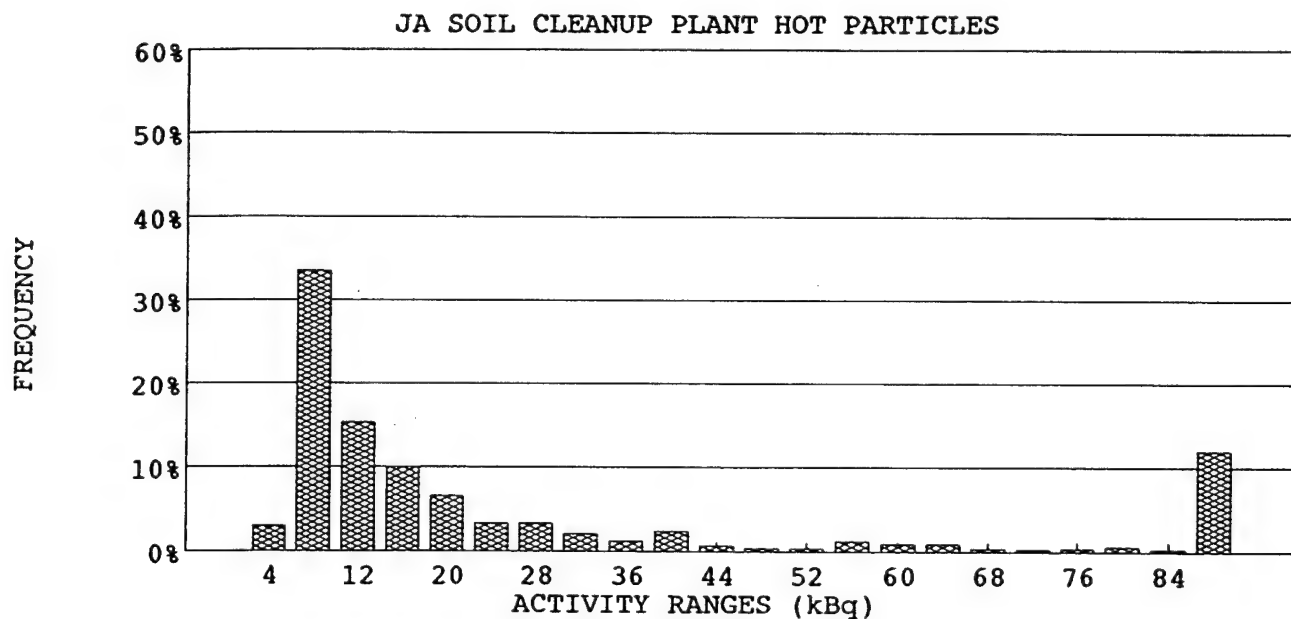
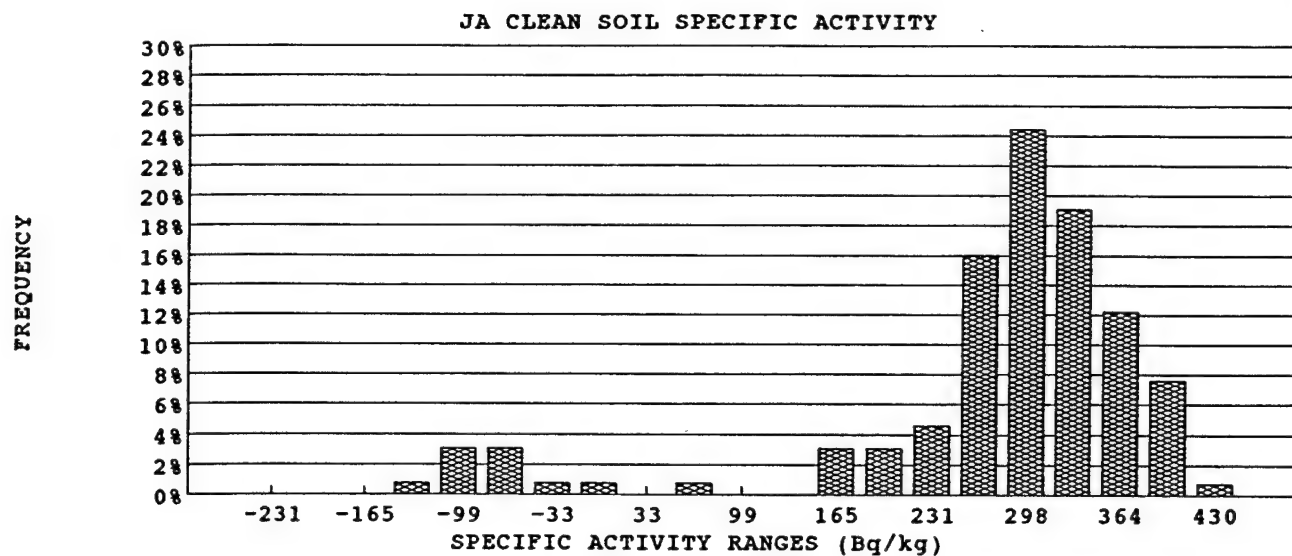
SORTER 2				20-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m³		BACKGROUND		0.77 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		0.8 tons		67.7 tons		68.5 tons			
MAXIMUM/SORT		55.9 kg		55.9 kg					
MINIMUM/SORT		0.7 kg		48.9 kg					
VOLUME IN-GROUND		0.6 yd³		53.7 yd³		54.3 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.9%							
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
TOTAL		19,770 kBq		HOT		CLEAN			
MAXIMUM/SORT		1,236 kBq		4,272 kBq		4,558 kBq			
MINIMUM/SORT		3 kBq		633 kBq		20 kBq			
SPECIFIC ACTIVITY				0 Bq		-7 kBq			
				5,525 Bq/kg		67 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,225		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				842		06:45		06:32	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				381		08:54		11:02	
UNEXPLAINED RECORDS				0		09:26			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				12,250					
2-SEC RECORDS WITH SORTS				790					
2-SEC RECORDS WITHOUT SORTS				11,460					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,015					
NONPROCESSING RECORDS (Test, calibration, etc)				20					
2-SEC SORT DETECTORS									
1 DET		589	74.56%	5 DET		3	0.38%		
2 DET		169	21.39%	6 DET		0	0.00%		
3 DET		26	3.29%	7 DET		1	0.13%		
4 DET		3	0.38%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				41.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	19	4.6%	-14000	0	-250	0.0%	4	21	2.7%
2	68	16.6%	-12000	1	-215	0.1%	8	341	43.2%
3	75	18.3%	-10000	0	-179	0.0%	12	140	17.7%
4	66	16.1%	-8000	7	-143	0.6%	16	87	11.0%
5	71	17.4%	-6000	9	-107	0.7%	20	33	4.2%
6	58	14.2%	-4000	12	-72	1.0%	24	36	4.6%
7	40	9.8%	-2000	27	-36	2.2%	28	19	2.4%
8	12	2.9%	0	131	0	10.5%	32	9	1.1%
TOTAL	409		2000	274	36	22.0%	36	15	1.9%
2-GATE SORTS			4000	311	72	25.0%	40	14	1.8%
DET	SORTS	FREQ%	6000	210	107	16.9%	44	9	1.1%
9	35	9.2%	8000	111	143	8.9%	48	4	0.5%
10	74	19.4%	10000	49	179	3.9%	52	7	0.9%
11	81	21.3%	12000	35	215	2.8%	56	4	0.5%
12	60	15.7%	14000	32	250	2.6%	60	7	0.9%
13	64	16.8%	16000	19	286	1.5%	64	2	0.3%
14	43	11.3%	18000	11	322	0.9%	68	2	0.3%
15	24	6.3%	20000	3	358	0.2%	72	4	0.5%
TOTAL	381		22000	1	394	0.1%	76	1	0.1%
			24000	0	429	0.0%	80	3	0.4%
			26000	0	465	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	31	3.9%
			TOTAL	1,243			TOTAL	790	
EVENT TYPES		HPE	792	MPE	155	DISE	158		



SORTER 3				20-Aug-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.66 ± 0.11 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.5 tons		8.1 tons		8.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		50.7 kg					
VOLUME IN-GROUND		0.4 yd ³		6.4 yd ³		6.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		68,526 kBq		HOT		CLEAN			
MAXIMUM/SORT		6,985 kBq		13,295 kBq		1,905 kBq			
MINIMUM/SORT		3 kBq		3,224 kBq		23 kBq			
SPECIFIC ACTIVITY				0 Bq		-11 kBq			
				25,353 Bq/kg		236 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				142		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				27		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				113					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				1,420					
2-SEC RECORDS WITH SORTS				536					
2-SEC RECORDS WITHOUT SORTS				884					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				678					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		312	58.21%	5 DET	17	3.17%			
2 DET		135	25.19%	6 DET	0	0.00%			
3 DET		50	9.33%	7 DET	0	0.00%			
4 DET		22	4.10%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				9.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	9	3.2%	-14000	1	-231	0.7%	4	10	1.9%
2	22	7.7%	-12000	0	-198	0.0%	8	167	31.2%
3	22	7.7%	-10000	1	-165	0.7%	12	76	14.2%
4	37	13.0%	-8000	0	-132	0.0%	16	53	9.9%
5	38	13.4%	-6000	0	-99	0.0%	20	40	7.5%
6	77	27.1%	-4000	1	-66	0.7%	24	21	3.9%
7	62	21.8%	-2000	2	-33	1.4%	28	18	3.4%
8	17	6.0%	0	3	0	2.1%	32	17	3.2%
TOTAL	284		2000	2	33	1.4%	36	6	1.1%
			4000	3	66	2.1%	40	11	2.1%
2-GATE SORTS			6000	6	99	4.3%	44	9	1.7%
DET	SORTS	FREQ%	8000	7	132	5.0%	48	6	1.1%
9	16	6.3%	10000	6	165	4.3%	52	1	0.2%
10	16	6.3%	12000	7	198	5.0%	56	4	0.7%
11	29	11.5%	14000	17	231	12.1%	60	1	0.2%
12	38	15.1%	16000	23	264	16.3%	64	2	0.4%
13	57	22.6%	18000	29	298	20.6%	68	3	0.6%
14	57	22.6%	20000	22	331	15.6%	72	2	0.4%
15	39	15.5%	22000	8	364	5.7%	76	3	0.6%
TOTAL	252		24000	3	397	2.1%	80	2	0.4%
			26000	0	430	0.0%	84	3	0.6%
			>28000	0	0	0.0%	>84	81	15.1%
		TOTAL	141			TOTAL	536		
EVENT TYPES		HPE	464	MPE	90	DISE	139		



SORTER 4				20-Aug-94					
SORTER SOIL DENSITY		1.20 tons/m ³		BACKGROUND		0.67 ± 0.05 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		1.2 tons		6.8 tons		8.0 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		47.7 kg					
VOLUME IN-GROUND		0.9 yd ³		5.4 yd ³		6.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		85.5%							
ACTIVITY				PARTICLE		DISPERSED + PARTICLE		CLEAN	
TOTAL		79,713 kBq		15,944 kBq		2,093 kBq			
MAXIMUM/SORT		16,385 kBq		7,203 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		0 kBq			
SPECIFIC ACTIVITY				13,761 Bq/kg		306 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				132		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				12		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				15		None		None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				105					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				1,320					
2-SEC RECORDS WITH SORTS				651					
2-SEC RECORDS WITHOUT SORTS				669					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				783					
NONPROCESSING RECORDS (Test, calibration, etc)				11					
2-SEC SORT DETECTORS									
1 DET		423	64.98%	5 DET		11	1.69%		
2 DET		152	23.35%	6 DET		0	0.00%		
3 DET		50	7.68%	7 DET		1	0.15%		
4 DET		15	2.30%	8 DET		1	0.15%		
AVERAGE TIME BETWEEN 2-SEC SORTS				6.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	15	4.5%	-14000	0	-231	0.0%	4	20	3.1%
2	64	19.4%	-12000	0	-198	0.0%	8	218	33.5%
3	73	22.1%	-10000	0	-165	0.0%	12	100	15.4%
4	56	17.0%	-8000	1	-132	0.8%	16	65	10.0%
5	49	14.8%	-6000	4	-99	3.1%	20	43	6.6%
6	38	11.5%	-4000	4	-66	3.1%	24	22	3.4%
7	23	7.0%	-2000	1	-33	0.8%	28	22	3.4%
8	12	3.6%	0	1	0	0.8%	32	14	2.2%
TOTAL	330		2000	0	33	0.0%	36	8	1.2%
			4000	1	66	0.8%	40	16	2.5%
2-GATE SORTS			6000	0	99	0.0%	44	5	0.8%
DET	SORTS	FREQ%	8000	0	132	0.0%	48	3	0.5%
9	36	11.2%	10000	4	165	3.1%	52	3	0.5%
10	80	24.9%	12000	4	198	3.1%	56	8	1.2%
11	56	17.4%	14000	6	231	4.6%	60	6	0.9%
12	53	16.5%	16000	21	264	16.0%	64	6	0.9%
13	36	11.2%	18000	32	298	24.4%	68	3	0.5%
14	34	10.6%	20000	25	331	19.1%	72	2	0.3%
15	26	8.1%	22000	16	364	12.2%	76	3	0.5%
TOTAL	321		24000	10	397	7.6%	80	4	0.6%
			26000	1	430	0.8%	84	2	0.3%
			>28000	0	0	0.0%	>84	78	12.0%
			TOTAL	131			TOTAL	651	
EVENT TYPES		HPE	577	MPE	107	DISE	848		



WORK HISTORY - JA SOIL CLEANUP PLANT

22-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

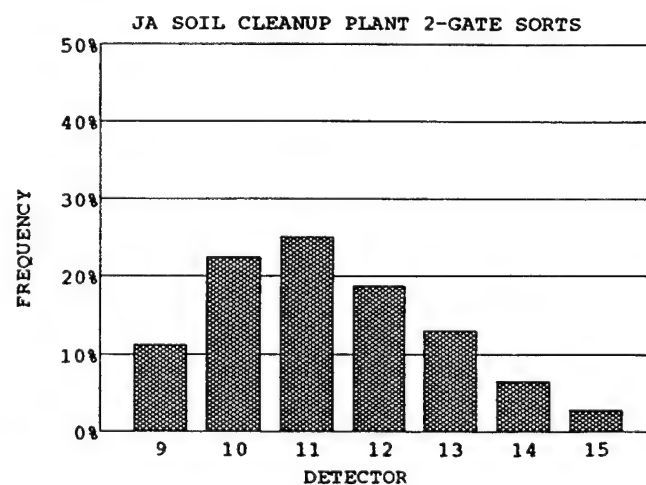
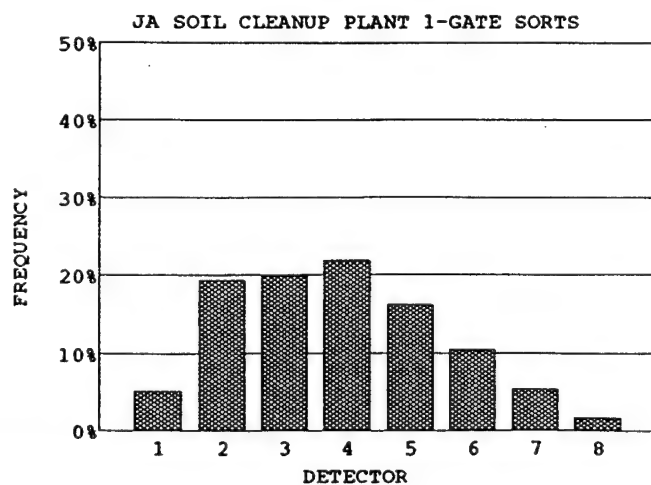
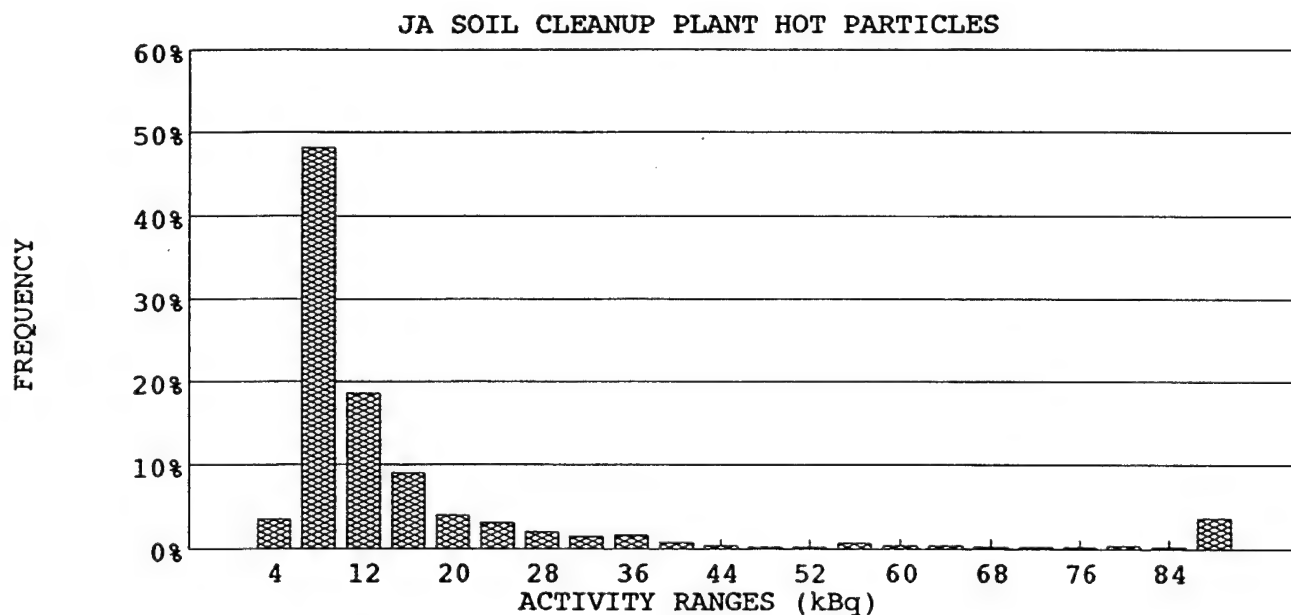
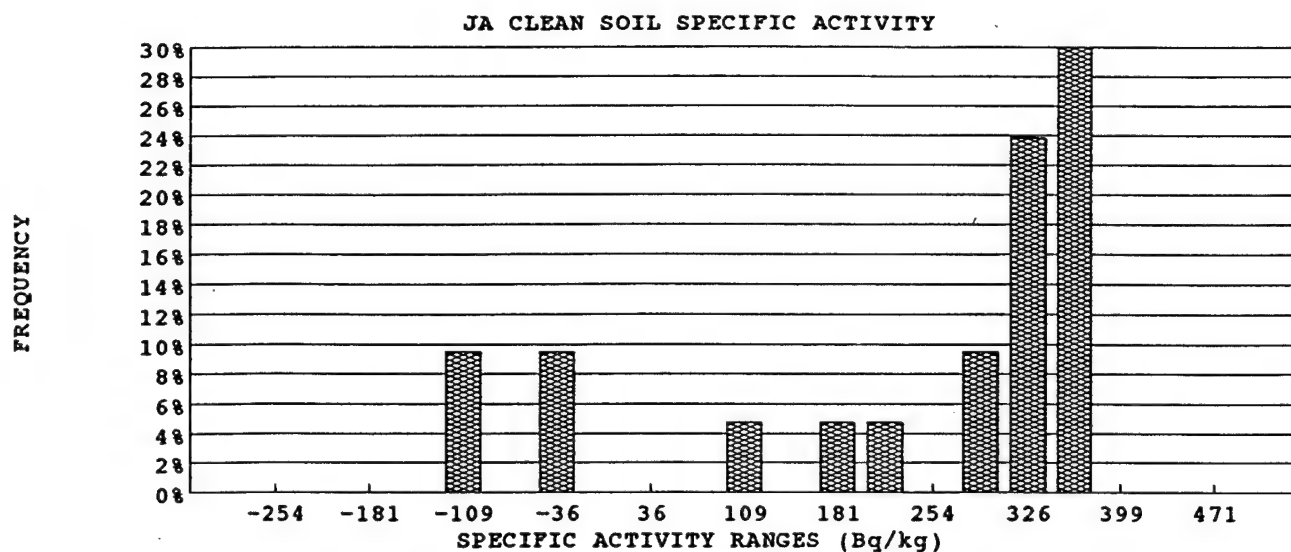
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	1.0 hr	0.0 hr	0.0 hr	1.0 hr
SORTER START-UP	NA	07:30	NA	NA	
START SOIL PROCESSING	NA	07:47	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.3 hr	0.0 hr	0.0 hr	0.3 hr
SORTER SHUT-DOWN	NA	08:32	NA	NA	
END SOIL PROCESSING	NA	08:31	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.7 hr	0.0 hr	0.0 hr	0.7 hr
DOWN-TIME	0.0 hr	0.3 hr	0.0 hr	0.0 hr	0.3 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	9.0 hr	10.0 hr	10.0 hr	39.0 hr
AUTHORIZED DELAY TIME	7.5 hr	7.5 hr	10.0 hr	10.0 hr	35.0 hr
PLANT PERFORMANCE					70.4%
PRODUCTIVITY					1.8%

PRODUCTIVITY

Date	22-Aug-94	Excused Delays for day (sorter-hrs)	35 hr
Contract day (from 6 Sep)	289	Excused delays for contract (sorter-hrs)	5,225 hr
Current Contract week	49	Excused delay days (plant-days)	131 days
		Excused delay months (plant-month)	5.02 months
Soil production for Day	7 MT		
Cumulative Soil Production for Week	7 MT	Percent of contract completed	57.2%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,685 MT
Since 6 Sep 93	55,633 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,224 MT		
Total Soil production for project	83,511 MT		

MT = metric tons

SORTER 2				22-Aug-94					
SORTER SOIL DENSITY			1.20 tons/m³	BACKGROUND		0.78 ±	0.03 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		6.4 tons		0.9 tons		7.3 tons			
MAXIMUM/SORT		55.9 kg		55.2 kg					
MINIMUM/SORT		0.7 kg		46.1 kg					
VOLUME IN-GROUND		5.1 yd³		0.7 yd³		5.8 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		12.7%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		20,134 kBq		7,731 kBq		270 kBq			
MAXIMUM/SORT		1,995 kBq		771 kBq		20 kBq			
MINIMUM/SORT		3 kBq		1,505 Bq		-3 kBq			
SPECIFIC ACTIVITY				1,210 Bq/kg		290 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				131		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				113		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				0		None None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				16					
UNEXPLAINED RECORDS				2					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				1,310					
2-SEC RECORDS WITH SORTS				735					
2-SEC RECORDS WITHOUT SORTS				575					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				866					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		483	65.71%	5 DET	3	0.41%			
2 DET		189	25.71%	6 DET	0	0.00%			
3 DET		48	6.53%	7 DET	0	0.00%			
4 DET		12	1.63%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				5.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	18	5.1%	-14000	0	-254	0.0%	4	26	3.5%
2	68	19.3%	-12000	0	-217	0.0%	8	354	48.2%
3	70	19.9%	-10000	0	-181	0.0%	12	137	18.6%
4	77	21.9%	-8000	0	-145	0.0%	16	66	9.0%
5	57	16.2%	-6000	2	-109	9.5%	20	29	3.9%
6	37	10.5%	-4000	0	-72	0.0%	24	23	3.1%
7	19	5.4%	-2000	2	-36	9.5%	28	15	2.0%
8	6	1.7%	0	0	0	0.0%	32	11	1.5%
TOTAL	352		2000	0	36	0.0%	36	12	1.6%
			4000	0	72	0.0%	40	6	0.8%
2-GATE SORTS			6000	1	109	4.8%	44	3	0.4%
DET	SORTS	FREQ%	8000	0	145	0.0%	48	2	0.3%
9	43	11.2%	10000	1	181	4.8%	52	2	0.3%
10	86	22.5%	12000	1	217	4.8%	56	5	0.7%
11	96	25.1%	14000	0	254	0.0%	60	3	0.4%
12	72	18.8%	16000	2	290	9.5%	64	3	0.4%
13	50	13.1%	18000	5	326	23.8%	68	2	0.3%
14	25	6.5%	20000	7	362	33.3%	72	2	0.3%
15	11	2.9%	22000	0	399	0.0%	76	2	0.3%
TOTAL	383		24000	0	435	0.0%	80	3	0.4%
			26000	0	471	0.0%	84	2	0.3%
			>28000	0	0	0.0%	>84	27	3.7%
			TOTAL	21			TOTAL	735	
EVENT TYPES		HPE	688	MPE	279	DISE	8,177		



WORK HISTORY - JA SOIL CLEANUP PLANT

23-Aug-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.5 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	3.3 hr	3.3 hr	0.0 hr	0.0 hr	6.5 hr
SORTER START-UP	06:00	06:00	NA	NA	
START SOIL PROCESSING	07:01	07:01	NA	NA	
TIME REQUIRED TO START-UP	1.0 hr	1.0 hr	0.0 hr	0.0 hr	2.1 hr
SORTER SHUT-DOWN	09:15	09:15	NA	NA	
END SOIL PROCESSING	09:10	09:11	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.1 hr
ACTUAL PROCESS HOURS	2.1 hr	2.1 hr	0.0 hr	0.0 hr	4.3 hr
DOWN-TIME	1.1 hr	1.1 hr	0.0 hr	0.0 hr	2.2 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	6.8 hr	6.8 hr	10.0 hr	10.0 hr	33.5 hr
AUTHORIZED DELAY TIME	6.8 hr	6.8 hr	10.0 hr	10.0 hr	33.5 hr
PLANT PERFORMANCE					66.0%
PRODUCTIVITY					10.7%

PRODUCTIVITY

Date	23-Aug-94	Excused Delays for day (sorter-hrs)	33.5 hr
Contract day (from 6 Sep)	290	Excused delays for contract (sorter-hrs)	5,259 hr
Current Contract week	49	Excused delay days (plant-days)	131 days
		Excused delay months (plant-month)	5.06 months
Soil production for Day	43 MT		
Cumulative Soil Production for Week	50 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

SORTER 1

23-Aug-94

SORTER SOIL DENSITY		1.20 tons/m ³	BACKGROUND		0.67 ± 0.07 c/s
SOIL	CONTAMINATED		CLEAN	TOTAL	
MASS TOTAL	5.6 tons		16.0 tons	21.6 tons	
MAXIMUM/SORT	55.9 kg		55.9 kg		
MINIMUM/SORT	0.7 kg		46.1 kg		
VOLUME IN-GROUND	4.4 yd ³		12.7 yd ³	17.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+ CLEAN))	74.2%				

ACTIVITY

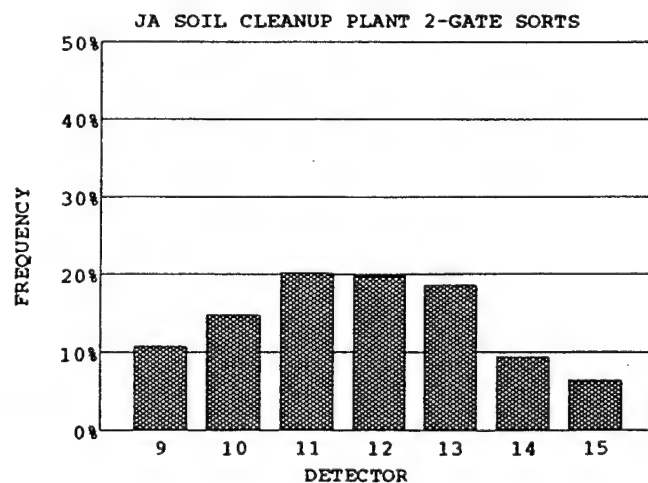
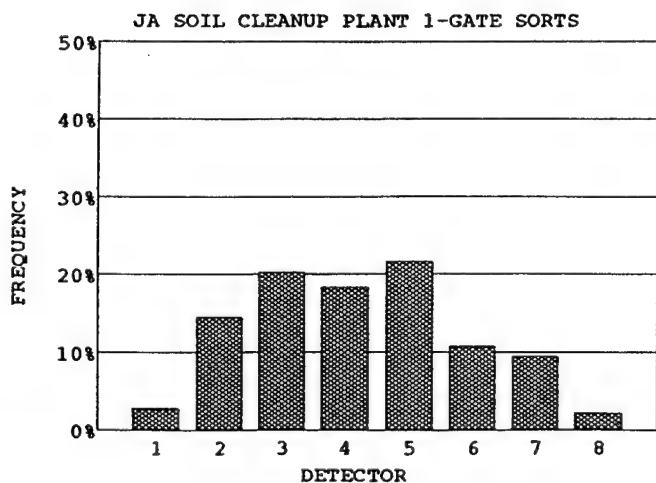
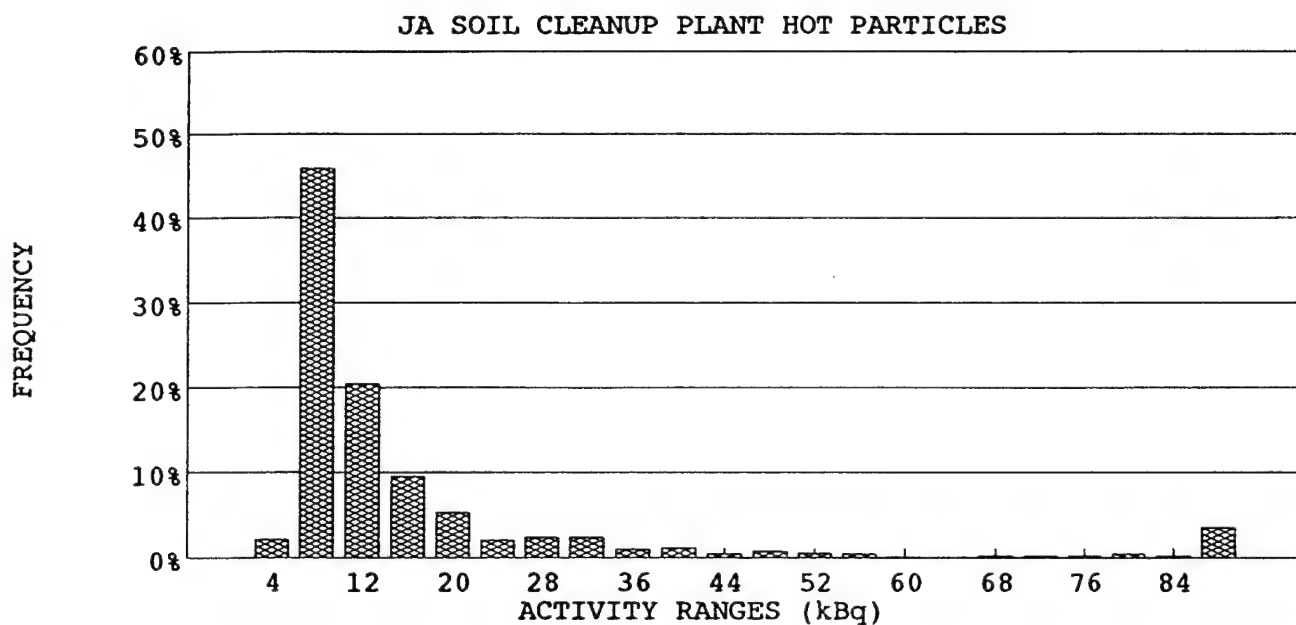
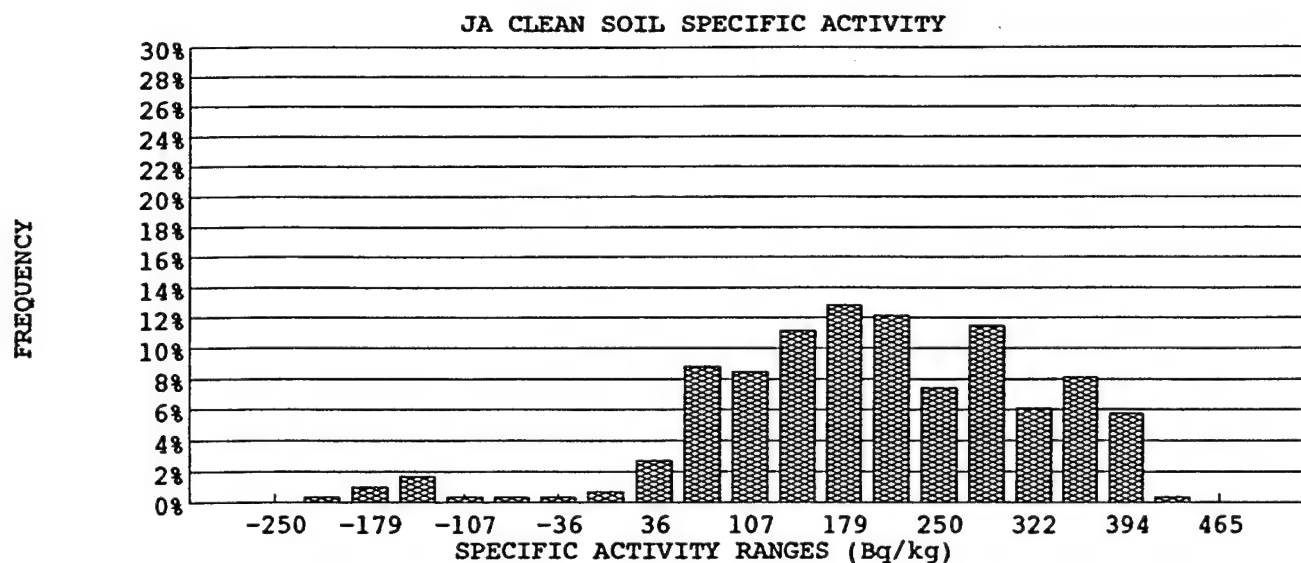
		PARTICLE	DISPERSED + PARTICLE	
			HOT	CLEAN
TOTAL		16,231 kBq	6,051 kBq	3,024 kBq
MAXIMUM/SORT		1,249 kBq	541 kBq	22 kBq
MINIMUM/SORT		3 kBq	0 Bq	-13 kBq
SPECIFIC ACTIVITY			1,085 Bq/kg	189 Bq/kg

SORTS

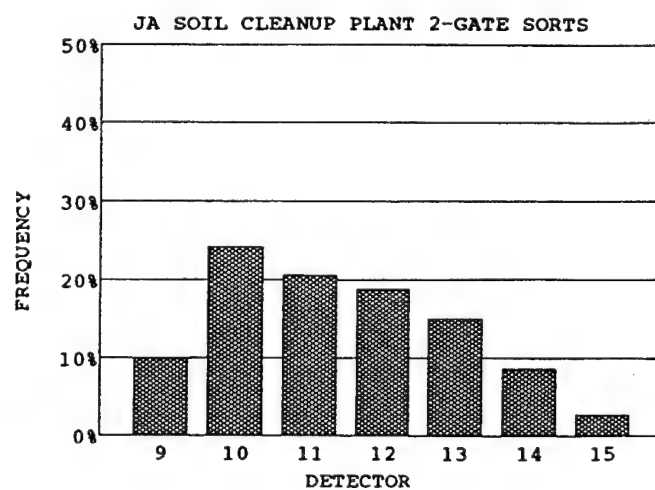
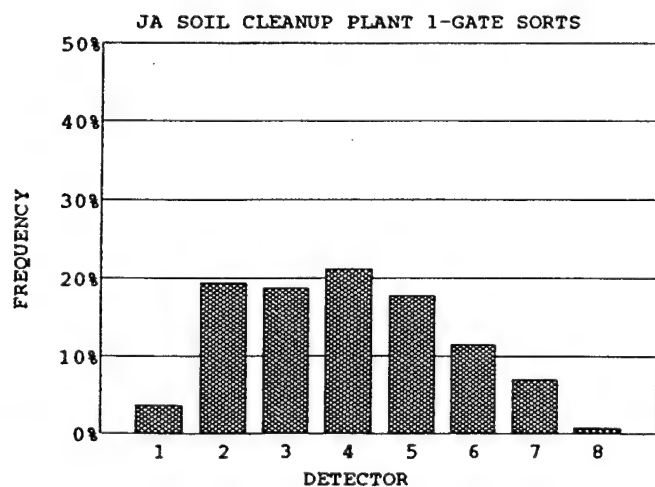
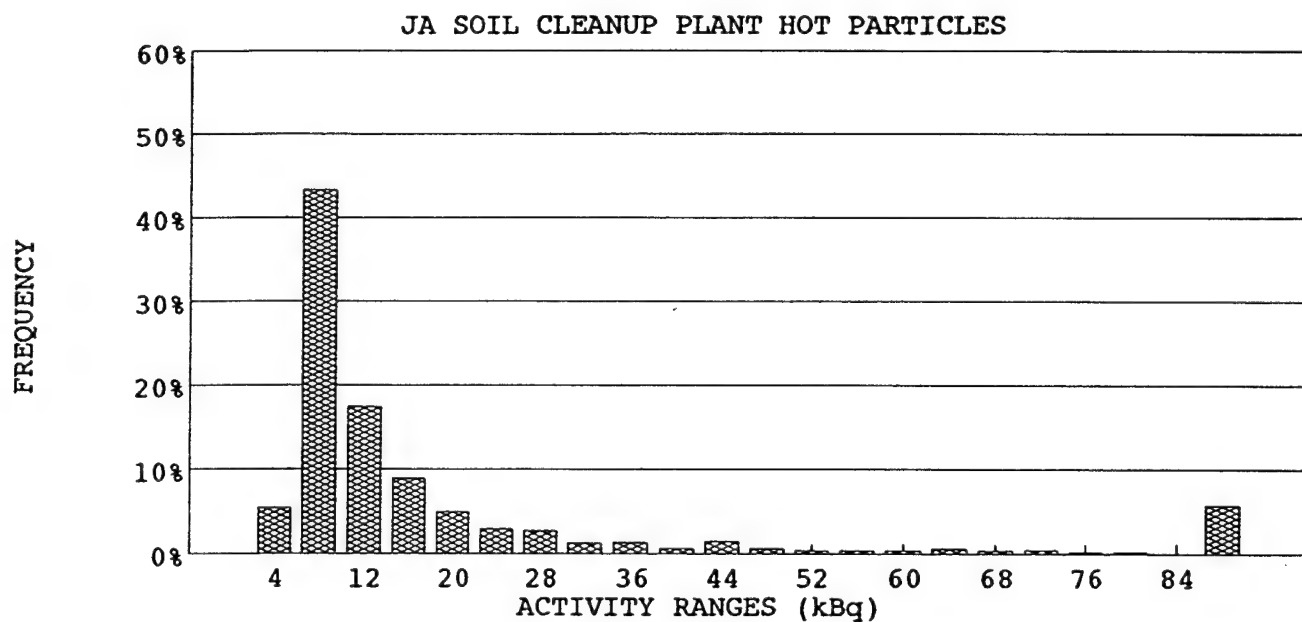
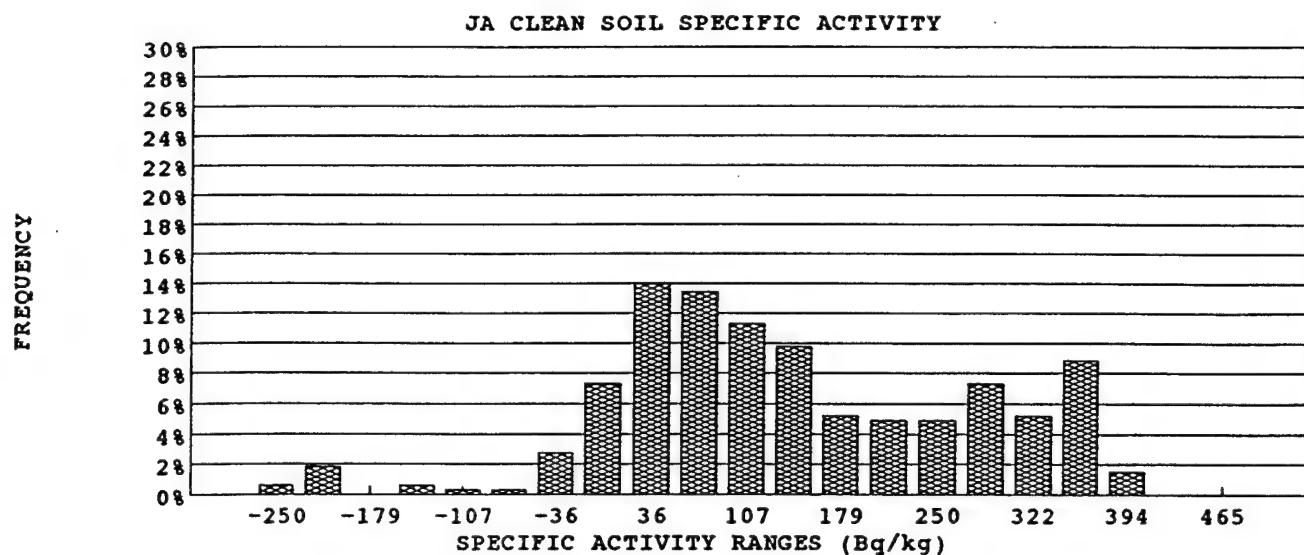
20-SEC PROCESS PERIODS			386	UNEXP	PAUSE
ALL 80 ELEMENTS SORT (MD>0&MND=0)		92		TIME	TIME
NONE (AD=0 & MD=0 & MND>0)		137		None	None
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)		157			
UNEXPLAINED RECORDS		0			
0<AD<1kBq & MD>0		0			
AD=0 & MD>0		0			
AD<0 & MD >0		0			
2-SEC COUNT PERIODS			3,860		
2-SEC RECORDS WITH SORTS		866			
2-SEC RECORDS WITHOUT SORTS		2,994			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)			1,252		
NONPROCESSING RECORDS (Test, calibration, etc)			2		
2-SEC SORT DETECTORS					
1 DET	607 70.09%	5 DET	4	0.46%	
2 DET	207 23.90%	6 DET	0	0.00%	
3 DET	40 4.62%	7 DET	0	0.00%	
4 DET	8 0.92%	8 DET	0	0.00%	
AVERAGE TIME BETWEEN 2-SEC SORTS		12.7 sec			

FREQUENCY DISTRIBUTIONS

1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	12	2.9%	-14000	0	-250	0.0%	4	19	2.2%
2	61	14.5%	-12000	1	-215	0.3%	8	397	45.8%
3	85	20.2%	-10000	3	-179	1.0%	12	177	20.4%
4	77	18.3%	-8000	5	-143	1.7%	16	83	9.6%
5	91	21.7%	-6000	1	-107	0.3%	20	46	5.3%
6	45	10.7%	-4000	1	-72	0.3%	24	18	2.1%
7	40	9.5%	-2000	1	-36	0.3%	28	21	2.4%
8	9	2.1%	0	2	0	0.7%	32	21	2.4%
TOTAL	420		2000	8	36	2.7%	36	9	1.0%
			4000	26	72	8.8%	40	10	1.2%
2-GATE SORTS			6000	25	107	8.4%	44	4	0.5%
DET	SORTS	FREQ%	8000	33	143	11.1%	48	7	0.8%
9	48	10.8%	10000	38	179	12.8%	52	5	0.6%
10	66	14.8%	12000	36	215	12.2%	56	4	0.5%
11	90	20.2%	14000	22	250	7.4%	60	1	0.1%
12	88	19.7%	16000	34	286	11.5%	64	1	0.1%
13	83	18.6%	18000	18	322	6.1%	68	2	0.2%
14	42	9.4%	20000	24	358	8.1%	72	2	0.2%
15	29	6.5%	22000	17	394	5.7%	76	2	0.2%
TOTAL	446		24000	1	429	0.3%	80	4	0.5%
			26000	0	465	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	31	3.6%
TOTAL			296				TOTAL	866	
EVENT TYPES		HPE	853	MPE	258	DISE	6,866		



SORTER 2				23-Aug-94					
SORTER SOIL DENSITY			1.20 tons/m ³	BACKGROUND		0.77 ±	0.02 c/s		
SOIL				CONTAMINATED	CLEAN	TOTAL			
MASS TOTAL				4.0 tons	17.6 tons	21.6 tons			
MAXIMUM/SORT				58.1 kg	55.9 kg				
MINIMUM/SORT				0.7 kg	43.3 kg				
VOLUME IN-GROUND				3.1 yd ³	14.0 yd ³	17.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				81.7%					
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				17,614 kBq	5,459 kBq	2,242 kBq			
MAXIMUM/SORT				834 kBq	262 kBq	21 kBq			
MINIMUM/SORT				3 kBq	0 Bq	-16 kBq			
SPECIFIC ACTIVITY					1,381 Bq/kg	127 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS					386	UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				61		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				133		07:11	09:08		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				192					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS					3,860				
2-SEC RECORDS WITH SORTS				804					
2-SEC RECORDS WITHOUT SORTS				3,056					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)					1,190				
NONPROCESSING RECORDS (Test, calibration, etc)					3				
2-SEC SORT DETECTORS									
1 DET	566	70.40%	5 DET	2	0.25%				
2 DET	186	23.13%	6 DET	0	0.00%				
3 DET	41	5.10%	7 DET	0	0.00%				
4 DET	9	1.12%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS				13.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	15	3.6%	-14000	2	-250	0.6%	4	44	5.5%
2	80	19.5%	-12000	6	-215	1.8%	8	348	43.3%
3	77	18.7%	-10000	0	-179	0.0%	12	140	17.4%
4	87	21.2%	-8000	2	-143	0.6%	16	72	9.0%
5	73	17.8%	-6000	1	-107	0.3%	20	40	5.0%
6	47	11.4%	-4000	1	-72	0.3%	24	24	3.0%
7	29	7.1%	-2000	9	-36	2.7%	28	22	2.7%
8	3	0.7%	0	24	0	7.3%	32	10	1.2%
TOTAL	411		2000	46	36	14.0%	36	11	1.4%
			4000	44	72	13.4%	40	5	0.6%
2-GATE SORTS			6000	37	107	11.3%	44	12	1.5%
DET	SORTS	FREQ%	8000	32	143	9.8%	48	5	0.6%
9	39	9.9%	10000	17	179	5.2%	52	3	0.4%
10	95	24.2%	12000	16	215	4.9%	56	3	0.4%
11	81	20.6%	14000	16	250	4.9%	60	3	0.4%
12	74	18.8%	16000	24	286	7.3%	64	5	0.6%
13	59	15.0%	18000	17	322	5.2%	68	3	0.4%
14	34	8.7%	20000	29	358	8.8%	72	4	0.5%
15	11	2.8%	22000	5	394	1.5%	76	2	0.2%
TOTAL	393		24000	0	429	0.0%	80	2	0.2%
			26000	0	465	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	46	5.7%
			TOTAL	328			TOTAL	804	
EVENT TYPES		HPE	779	MPE	287	DISE	4,590		



WORK HISTORY - JA SOIL CLEANUP PLANT

24-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	24-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	291	Excused delays for contract (sorter-hrs)	5,299 hr
Current Contract week	49	Excused delay days (plant-days)	132 days
		Excused delay months (plant-month)	5.10 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	50 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

25-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	25-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	292	Excused delays for contract (sorter-hrs)	5,339 hr
Current Contract week	49	Excused delay days (plant-days)	133 days
		Excused delay months (plant-month)	5.13 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	50 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

26-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	26-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	293	Excused delays for contract (sorter-hrs)	5,379 hr
Current Contract week	49	Excused delay days (plant-days)	134 days
		Excused delay months (plant-month)	5.17 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	50 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

27-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	27-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	294	Excused delays for contract (sorter-hrs)	5,419 hr
Current Contract week	49	Excused delay days (plant-days)	135 days
		Excused delay months (plant-month)	5.21 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	50 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

29-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	29-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	295	Excused delays for contract (sorter-hrs)	5,459 hr
Current Contract week	50	Excused delay days (plant-days)	136 days
		Excused delay months (plant-month)	5.25 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

30-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	30-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	296	Excused delays for contract (sorter-hrs)	5,499 hr
Current Contract week	50	Excused delay days (plant-days)	137 days
		Excused delay months (plant-month)	5.29 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

31-Aug-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	31-Aug-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	297	Excused delays for contract (sorter-hrs)	5,539 hr
Current Contract week	50	Excused delay days (plant-days)	138 days
		Excused delay months (plant-month)	5.33 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

01-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	01-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	298	Excused delays for contract (sorter-hrs)	5,579 hr
Current Contract week	50	Excused delay days (plant-days)	139 days
		Excused delay months (plant-month)	5.36 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

02-Sep-94

WORK DAY START 00:00 AM WORK DAY END 00:00 PM
LUNCH START 00:00 AM TIME LOST DURING LUNCH 0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	02-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	299	Excused delays for contract (sorter-hrs)	5,619 hr
Current Contract week	50	Excused delay days (plant-days)	140 days
		Excused delay months (plant-month)	5.40 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

03-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	03-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	300	Excused delays for contract (sorter-hrs)	5,659 hr
Current Contract week	50	Excused delay days (plant-days)	141 days
		Excused delay months (plant-month)	5.44 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

05-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	05-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	301	Excused delays for contract (sorter-hrs)	5,699 hr
Current Contract week	51	Excused delay days (plant-days)	142 days
		Excused delay months (plant-month)	5.48 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

06-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	06-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	302	Excused delays for contract (sorter-hrs)	5,739 hr
Current Contract week	51	Excused delay days (plant-days)	143 days
		Excused delay months (plant-month)	5.52 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

07-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	07-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	303	Excused delays for contract (sorter-hrs)	5,779 hr
Current Contract week	51	Excused delay days (plant-days)	144 days
		Excused delay months (plant-month)	5.56 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

08-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	08-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	304	Excused delays for contract (sorter-hrs)	5,819 hr
Current Contract week	51	Excused delay days (plant-days)	145 days
		Excused delay months (plant-month)	5.60 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

09-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	09-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	305	Excused delays for contract (sorter-hrs)	5,859 hr
Current Contract week	51	Excused delay days (plant-days)	146 days
		Excused delay months (plant-month)	5.63 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

10-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	10-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	306	Excused delays for contract (sorter-hrs)	5,899 hr
Current Contract week	51	Excused delay days (plant-days)	147 days
		Excused delay months (plant-month)	5.67 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

12-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	12-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	307	Excused delays for contract (sorter-hrs)	5,939 hr
Current Contract week	52	Excused delay days (plant-days)	148 days
		Excused delay months (plant-month)	5.71 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

13-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	13-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	308	Excused delays for contract (sorter-hrs)	5,979 hr
Current Contract week	52	Excused delay days (plant-days)	149 days
		Excused delay months (plant-month)	5.75 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

14-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	14-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	309	Excused delays for contract (sorter-hrs)	6,019 hr
Current Contract week	52	Excused delay days (plant-days)	150 days
		Excused delay months (plant-month)	5.79 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

15-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	15-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	310	Excused delays for contract (sorter-hrs)	6,059 hr
Current Contract week	52	Excused delay days (plant-days)	151 days
		Excused delay months (plant-month)	5.83 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

16-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	16-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	311	Excused delays for contract (sorter-hrs)	6,099 hr
Current Contract week	52	Excused delay days (plant-days)	152 days
		Excused delay months (plant-month)	5.86 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

17-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	17-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	312	Excused delays for contract (sorter-hrs)	6,139 hr
Current Contract week	52	Excused delay days (plant-days)	153 days
		Excused delay months (plant-month)	5.90 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

19-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	19-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	313	Excused delays for contract (sorter-hrs)	6,179 hr
Current Contract week	53	Excused delay days (plant-days)	154 days
		Excused delay months (plant-month)	5.94 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

20-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	20-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	314	Excused delays for contract (sorter-hrs)	6,219 hr
Current Contract week	53	Excused delay days (plant-days)	155 days
		Excused delay months (plant-month)	5.98 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

21-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	21-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	315	Excused delays for contract (sorter-hrs)	6,259 hr
Current Contract week	53	Excused delay days (plant-days)	156 days
		Excused delay months (plant-month)	6.02 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

22-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	22-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	316	Excused delays for contract (sorter-hrs)	6,299 hr
Current Contract week	53	Excused delay days (plant-days)	157 days
		Excused delay months (plant-month)	6.06 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

23-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	23-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	317	Excused delays for contract (sorter-hrs)	6,339 hr
Current Contract week	53	Excused delay days (plant-days)	158 days
		Excused delay months (plant-month)	6.10 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

24-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	24-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	318	Excused delays for contract (sorter-hrs)	6,379 hr
Current Contract week	53	Excused delay days (plant-days)	159 days
		Excused delay months (plant-month)	6.13 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

26-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	26-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	319	Excused delays for contract (sorter-hrs)	6,419 hr
Current Contract week	54	Excused delay days (plant-days)	160 days
		Excused delay months (plant-month)	6.17 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

27-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	27-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	320	Excused delays for contract (sorter-hrs)	6,459 hr
Current Contract week	54	Excused delay days (plant-days)	161 days
		Excused delay months (plant-month)	6.21 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

28-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	28-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	321	Excused delays for contract (sorter-hrs)	6,499 hr
Current Contract week	54	Excused delay days (plant-days)	162 days
		Excused delay months (plant-month)	6.25 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

29-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	29-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	322	Excused delays for contract (sorter-hrs)	6,539 hr
Current Contract week	54	Excused delay days (plant-days)	163 days
		Excused delay months (plant-month)	6.29 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

30-Sep-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	30-Sep-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	323	Excused delays for contract (sorter-hrs)	6,579 hr
Current Contract week	54	Excused delay days (plant-days)	164 days
		Excused delay months (plant-month)	6.33 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

01-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	01-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	324	Excused delays for contract (sorter-hrs)	6,619 hr
Current Contract week	54	Excused delay days (plant-days)	165 days
		Excused delay months (plant-month)	6.36 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

03-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	03-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	325	Excused delays for contract (sorter-hrs)	6,659 hr
Current Contract week	55	Excused delay days (plant-days)	166 days
		Excused delay months (plant-month)	6.40 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

04-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	04-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	326	Excused delays for contract (sorter-hrs)	6,699 hr
Current Contract week	55	Excused delay days (plant-days)	167 days
		Excused delay months (plant-month)	6.44 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

05-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	05-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	327	Excused delays for contract (sorter-hrs)	6,739 hr
Current Contract week	55	Excused delay days (plant-days)	168 days
		Excused delay months (plant-month)	6.48 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

06-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	06-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	328	Excused delays for contract (sorter-hrs)	6,779 hr
Current Contract week	55	Excused delay days (plant-days)	169 days
		Excused delay months (plant-month)	6.52 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

07-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	07-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	329	Excused delays for contract (sorter-hrs)	6,819 hr
Current Contract week	55	Excused delay days (plant-days)	170 days
		Excused delay months (plant-month)	6.56 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

08-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	08-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	330	Excused delays for contract (sorter-hrs)	6,859 hr
Current Contract week	55	Excused delay days (plant-days)	171 days
		Excused delay months (plant-month)	6.60 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

10-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	10-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	331	Excused delays for contract (sorter-hrs)	6,899 hr
Current Contract week	56	Excused delay days (plant-days)	172 days
		Excused delay months (plant-month)	6.63 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

11-Oct-94

WORK DAY START 00:00 AM WORK DAY END 00:00 PM
LUNCH START 00:00 AM TIME LOST DURING LUNCH 0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	11-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	332	Excused delays for contract (sorter-hrs)	6,939 hr
Current Contract week	56	Excused delay days (plant-days)	173 days
		Excused delay months (plant-month)	6.67 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

12-Oct-94

WORK DAY START 00:00 AM WORK DAY END 00:00 PM
LUNCH START 00:00 AM TIME LOST DURING LUNCH 0.0 HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	12-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	333	Excused delays for contract (sorter-hrs)	6,979 hr
Current Contract week	56	Excused delay days (plant-days)	174 days
		Excused delay months (plant-month)	6.71 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

13-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	13-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	334	Excused delays for contract (sorter-hrs)	7,019 hr
Current Contract week	56	Excused delay days (plant-days)	175 days
		Excused delay months (plant-month)	6.75 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

14-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0.0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	14-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	335	Excused delays for contract (sorter-hrs)	7,059 hr
Current Contract week	56	Excused delay days (plant-days)	176 days
		Excused delay months (plant-month)	6.79 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

15-Oct-94

WORK DAY START	00:00	AM	WORK DAY END	00:00	PM
LUNCH START	00:00	AM	TIME LOST DURING LUNCH	0	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					NA

PRODUCTIVITY

Date	15-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	336	Excused delays for contract (sorter-hrs)	7,099 hr
Current Contract week	56	Excused delay days (plant-days)	177 days
		Excused delay months (plant-month)	6.83 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

17-Oct-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	17-Oct-94	Excused Delays for day (sorter-hrs)	40 hr
Contract day (from 6 Sep)	337	Excused delays for contract (sorter-hrs)	7,139 hr
Current Contract week	57	Excused delay days (plant-days)	178 days
		Excused delay months (plant-month)	6.86 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

18-Oct-94

WORK DAY START	06:00	AM	WORK DAY END	16:30	PM
LUNCH START	11:00	AM	TIME LOST DURING LUNCH	0.5	HR

	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
SORTER AVAILABLE HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER START-UP	NA	NA	NA	NA	
START SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER SHUT-DOWN	NA	NA	NA	NA	
END SOIL PROCESSING	NA	NA	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
ACTUAL PROCESS HOURS	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
DOWN-TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
AUTHORIZED DELAY TIME	10.0 hr	10.0 hr	10.0 hr	10.0 hr	40.0 hr
PLANT PERFORMANCE					NA
PRODUCTIVITY					0.0%

PRODUCTIVITY

Date	18-Oct-94	Excused Delays for day (sorter - hrs)	40 hr
Contract day (from 6 Sep)	338	Excused delays for contract (sorter - hrs)	7,179 hr
Current Contract week	57	Excused delay days (plant - days)	179 days
		Excused delay months (plant - month)	6.90 months
Soil production for Day	0 MT		
Cumulative Soil Production for Week	0 MT	Percent of contract completed	57.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,677 MT
Since 6 Sep 93	55,676 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,267 MT		
Total Soil production for project	83,554 MT		

MT = metric tons

WORK HISTORY - JA SOIL CLEANUP PLANT

19-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

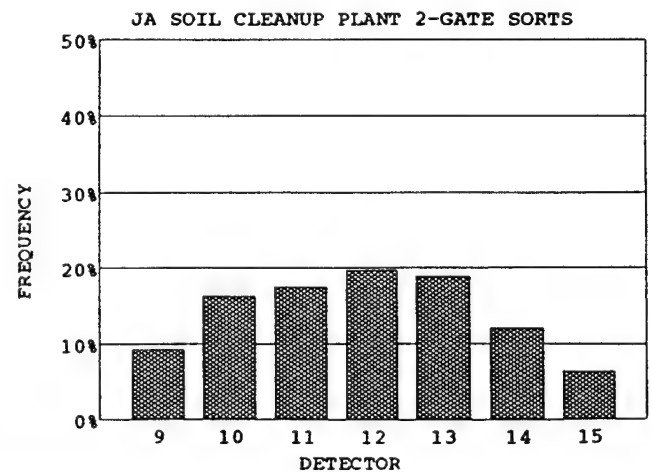
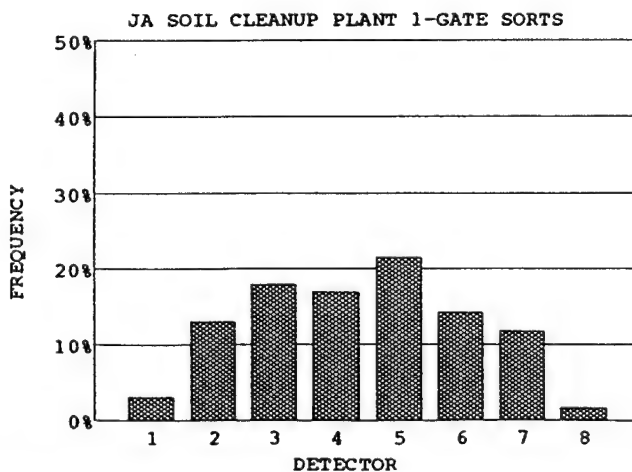
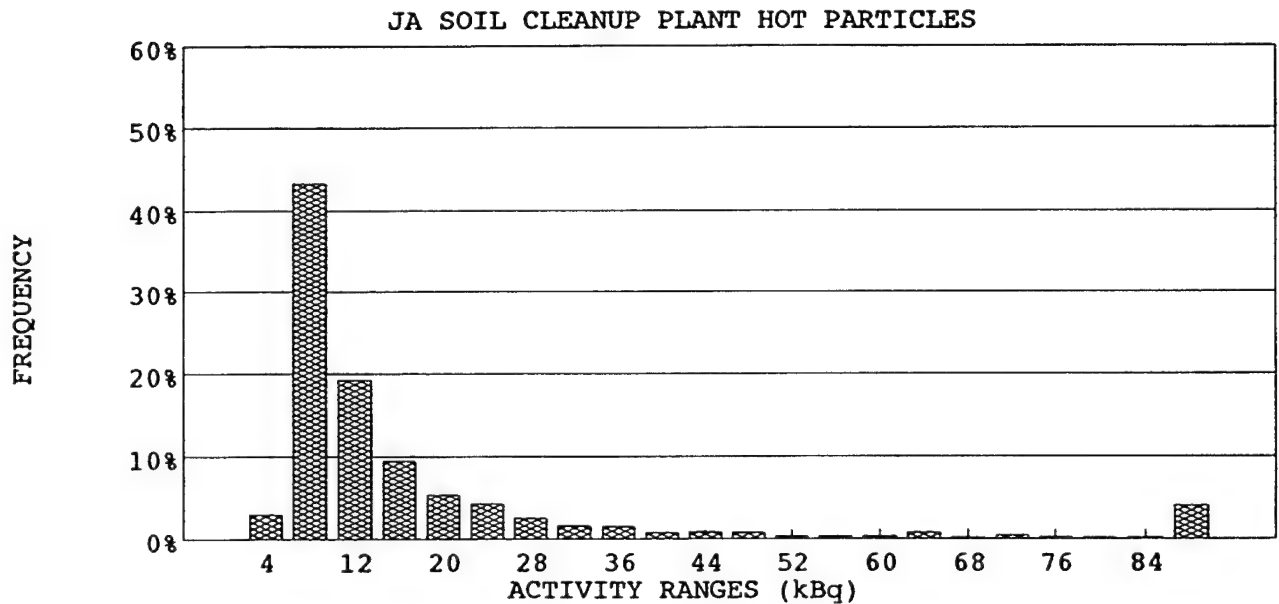
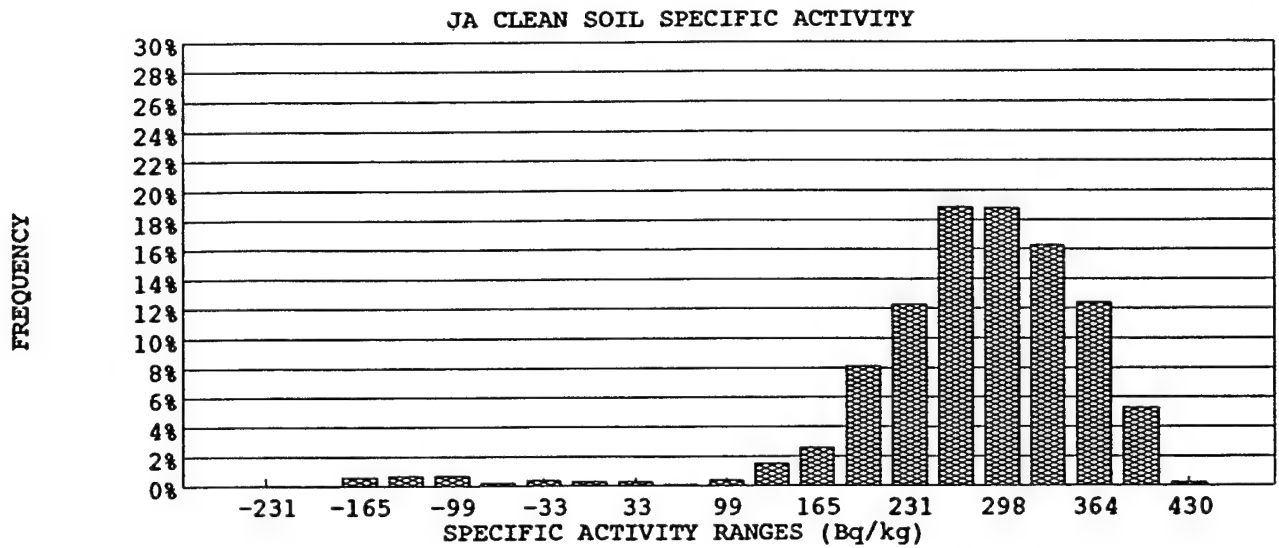
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	6.8 hr	6.8 hr	0.0 hr	0.0 hr	13.7 hr
SORTER START-UP	09:30	09:30	NA	NA	
START SOIL PROCESSING	09:43	09:43	NA	NA	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.4 hr
SORTER SHUT-DOWN	16:20	16:20	NA	NA	
END SOIL PROCESSING	16:09	16:10	NA	NA	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.0 hr	0.0 hr	0.3 hr
ACTUAL PROCESS HOURS	6.3 hr	6.3 hr	0.0 hr	0.0 hr	12.5 hr
DOWN-TIME	0.6 hr	0.6 hr	0.0 hr	0.0 hr	1.1 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	3.7 hr	3.7 hr	10.0 hr	10.0 hr	27.3 hr
AUTHORIZED DELAY TIME	3.5 hr	3.5 hr	10.0 hr	10.0 hr	27.0 hr
PLANT PERFORMANCE					91.7%
PRODUCTIVITY					29.9%

PRODUCTIVITY

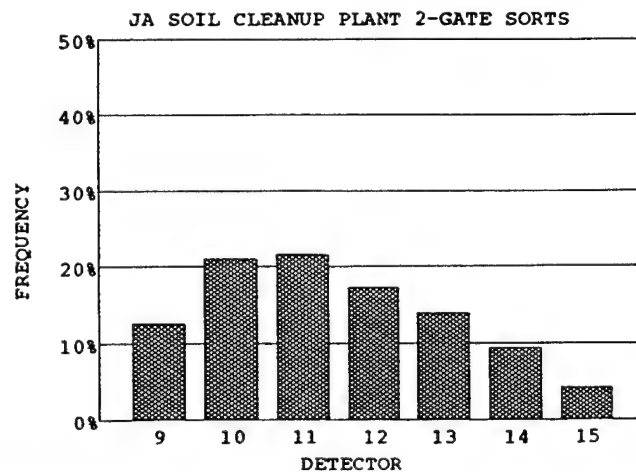
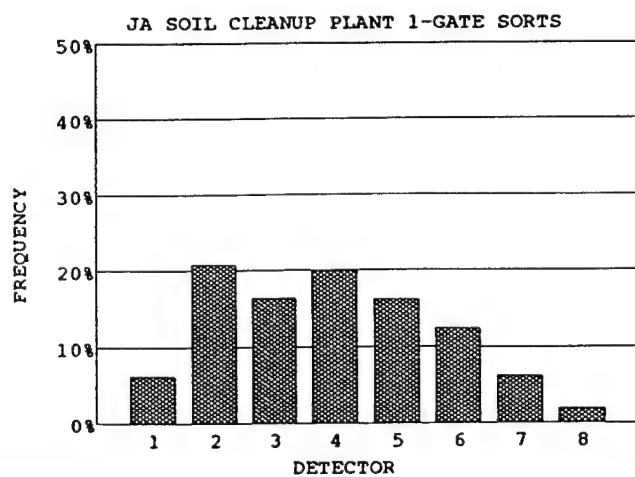
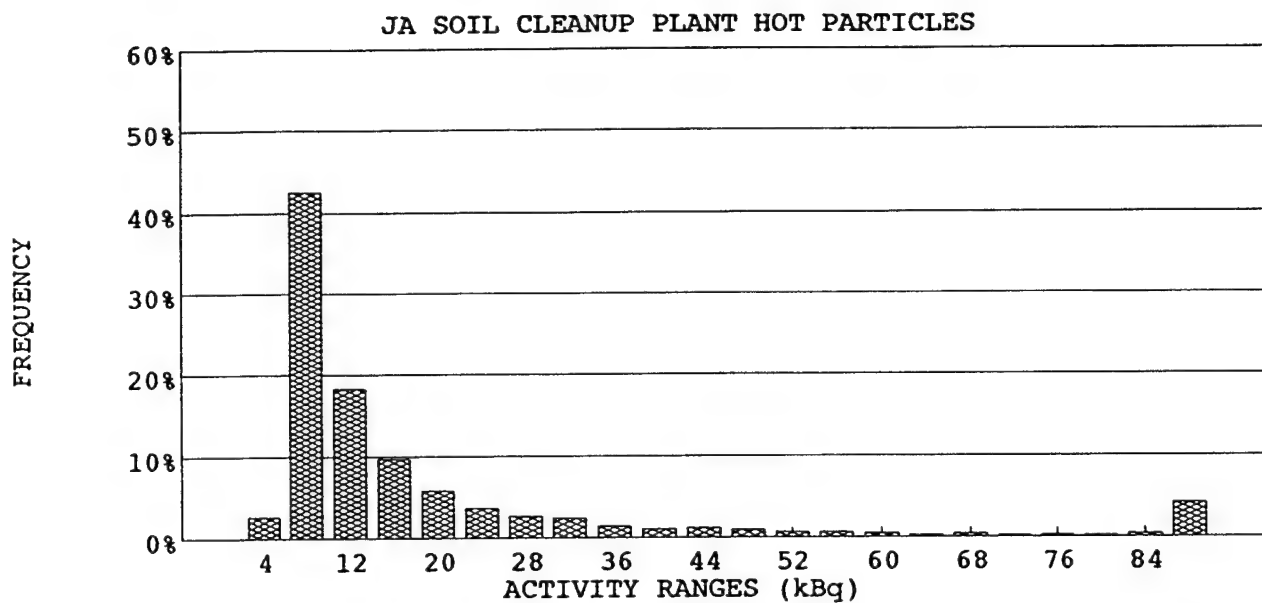
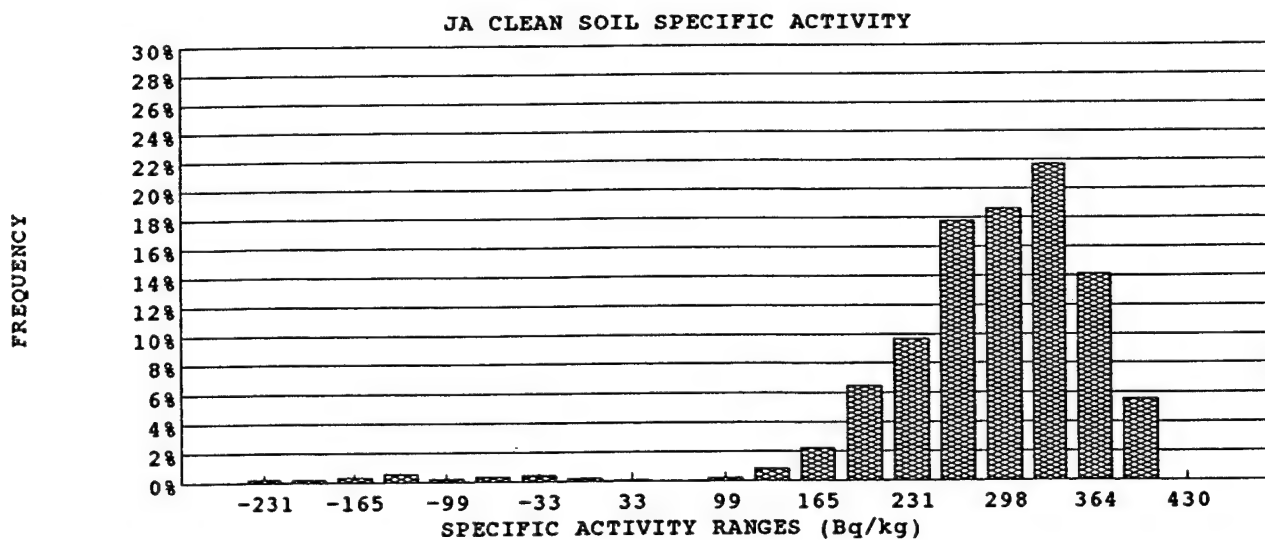
Date	19-Oct-94	Excused Delays for day (sorter-hrs)	27 hr
Contract day (from 6 Sep)	339	Excused delays for contract (sorter-hrs)	7,206 hr
Current Contract week	57	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	137 MT		
Cumulative Soil Production for Week	137 MT	Percent of contract completed	57.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,710 MT
Since 6 Sep 93	55,813 MT	Days ahead or behind schedule	5.4 days
Since 6 Aug 93	57,404 MT		
Total Soil production for project	83,691 MT		

MT = metric tons

SORTER 1				19-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.69 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		11.0 tons		57.3 tons		68.3 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		47.7 kg					
VOLUME IN-GROUND		8.7 yd ³		45.4 yd ³		54.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		83.9%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				74,468 kBq		20,273 kBq		15,847 kBq	
MAXIMUM/SORT				6,569 kBq		2,640 kBq		24 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-7 kBq	
SPECIFIC ACTIVITY						1,840 Bq/kg		277 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				1,128				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				152				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				287				12:59 14:43	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				689					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				11,280					
2-SEC RECORDS WITH SORTS				2,577					
2-SEC RECORDS WITHOUT SORTS				8,703					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,705					
NONPROCESSING RECORDS (Test, calibration, etc)				26					
2-SEC SORT DETECTORS									
1 DET		1,832	71.09%	5 DET		5	0.19%		
2 DET		588	22.82%	6 DET		0	0.00%		
3 DET		129	5.01%	7 DET		0	0.00%		
4 DET		23	0.89%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				12.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	40	3.1%	-14000	0	-231	0.0%	4	77	3.0%
2	168	13.0%	-12000	0	-198	0.0%	8	1,116	43.3%
3	231	17.9%	-10000	6	-165	0.6%	12	494	19.2%
4	218	16.9%	-8000	7	-132	0.7%	16	244	9.5%
5	278	21.5%	-6000	7	-99	0.7%	20	139	5.4%
6	183	14.2%	-4000	2	-66	0.2%	24	111	4.3%
7	152	11.8%	-2000	4	-33	0.4%	28	66	2.6%
8	22	1.7%	0	3	0	0.3%	32	41	1.6%
TOTAL	1,292		2000	3	33	0.3%	36	40	1.6%
			4000	1	66	0.1%	40	20	0.8%
2-GATE SORTS			6000	4	99	0.4%	44	23	0.9%
DET	SORTS	FREQ%	8000	15	132	1.5%	48	19	0.7%
9	119	9.3%	10000	26	165	2.6%	52	9	0.3%
10	209	16.3%	12000	81	198	8.1%	56	9	0.3%
11	225	17.5%	14000	123	231	12.3%	60	9	0.3%
12	253	19.7%	16000	189	264	18.9%	64	21	0.8%
13	242	18.8%	18000	188	298	18.8%	68	5	0.2%
14	155	12.1%	20000	163	331	16.3%	72	13	0.5%
15	82	6.4%	22000	124	364	12.4%	76	7	0.3%
TOTAL	1,285		24000	53	397	5.3%	80	5	0.2%
			26000	2	430	0.2%	84	4	0.2%
			>28000	0	0	0.0%	>84	105	4.1%
			TOTAL	1,001			TOTAL	2,577	
EVENT TYPES		HPE	2,529	MPE	415	DISE	11,620		



SORTER 2				19-Oct-94			
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.78 ± 0.03 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		19.7 tons		48.6 tons		68.3 tons	
MAXIMUM/SORT		63.0 kg		60.5 kg			
MINIMUM/SORT		0.8 kg		51.5 kg			
VOLUME IN-GROUND		15.7 yd³		38.5 yd³		54.2 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		71.1%					
ACTIVITY		PARTICLE		DISPERSED + PARTICLE			
TOTAL		53,254 kBq		HOT 23,015 kBq		CLEAN 13,909 kBq	
MAXIMUM/SORT		1,160 kBq		557 kBq		24 kBq	
MINIMUM/SORT		3 kBq		0 Bq		-12 kBq	
SPECIFIC ACTIVITY				1,165 Bq/kg		286 Bq/kg	
SORTS							
20-SEC PROCESS PERIODS				1,129		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				299		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				193		11:25 09:43	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				637		16:02 14:43	
UNEXPLAINED RECORDS				0			
0<AD<1kBq & MD>0				2			
AD=0 & MD>0				0			
AD<0 & MD >0				0			
2-SEC COUNT PERIODS				11,290			
2-SEC RECORDS WITH SORTS				2,407			
2-SEC RECORDS WITHOUT SORTS				8,883			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,536			
NONPROCESSING RECORDS (Test, calibration, etc)				20			
2-SEC SORT DETECTORS							
1 DET		1,706	70.88%	5 DET		5	0.21%
2 DET		564	23.43%	6 DET		0	0.00%
3 DET		110	4.57%	7 DET		0	0.00%
4 DET		22	0.91%	8 DET		0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS				13.2 sec			
FREQUENCY DISTRIBUTIONS							
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)
1	72	6.2%	-14000	2	-231 0.2%	4	64 2.7%
2	240	20.8%	-12000	2	-198 0.2%	8	1,023 42.5%
3	189	16.4%	-10000	3	-165 0.4%	12	441 18.3%
4	230	19.9%	-8000	5	-132 0.6%	16	233 9.7%
5	187	16.2%	-6000	2	-99 0.2%	20	140 5.8%
6	143	12.4%	-4000	3	-66 0.4%	24	88 3.7%
7	72	6.2%	-2000	4	-33 0.5%	28	63 2.6%
8	22	1.9%	0	2	0 0.2%	32	58 2.4%
TOTAL	1,155		2000	1	33 0.1%	36	35 1.5%
			4000	0	66 0.0%	40	24 1.0%
2-GATE SORTS			6000	2	99 0.2%	44	29 1.2%
DET	SORTS	FREQ%	8000	7	132 0.8%	48	22 0.9%
9	157	12.5%	10000	19	165 2.2%	52	16 0.7%
10	263	21.0%	12000	55	198 6.5%	56	15 0.6%
11	270	21.6%	14000	82	231 9.7%	60	12 0.5%
12	216	17.3%	16000	151	264 17.8%	64	7 0.3%
13	174	13.9%	18000	158	298 18.6%	68	9 0.4%
14	118	9.4%	20000	184	331 21.7%	72	5 0.2%
15	54	4.3%	22000	120	364 14.1%	76	7 0.3%
TOTAL	1,252		24000	47	397 5.5%	80	5 0.2%
			26000	0	430 0.0%	84	9 0.4%
			>28000	0	0 0.0%	>84	102 4.2%
			TOTAL	849		TOTAL	2,407
EVENT TYPES		HPE	2,418	MPE	960	DISE	22,727



WORK HISTORY - JA SOIL CLEANUP PLANT

20-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

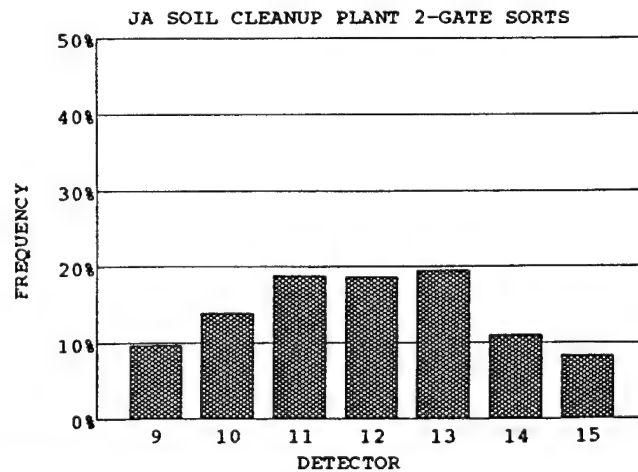
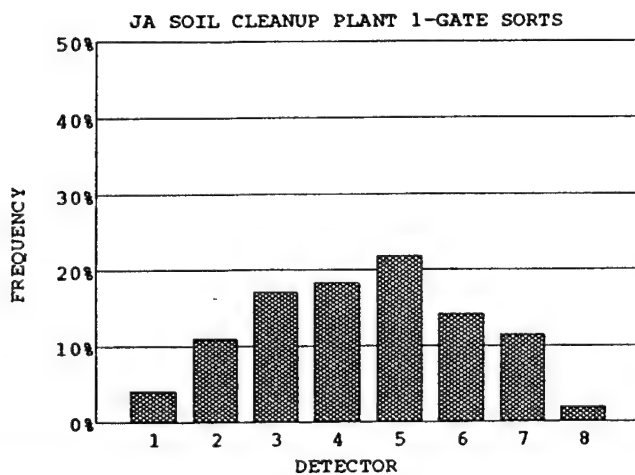
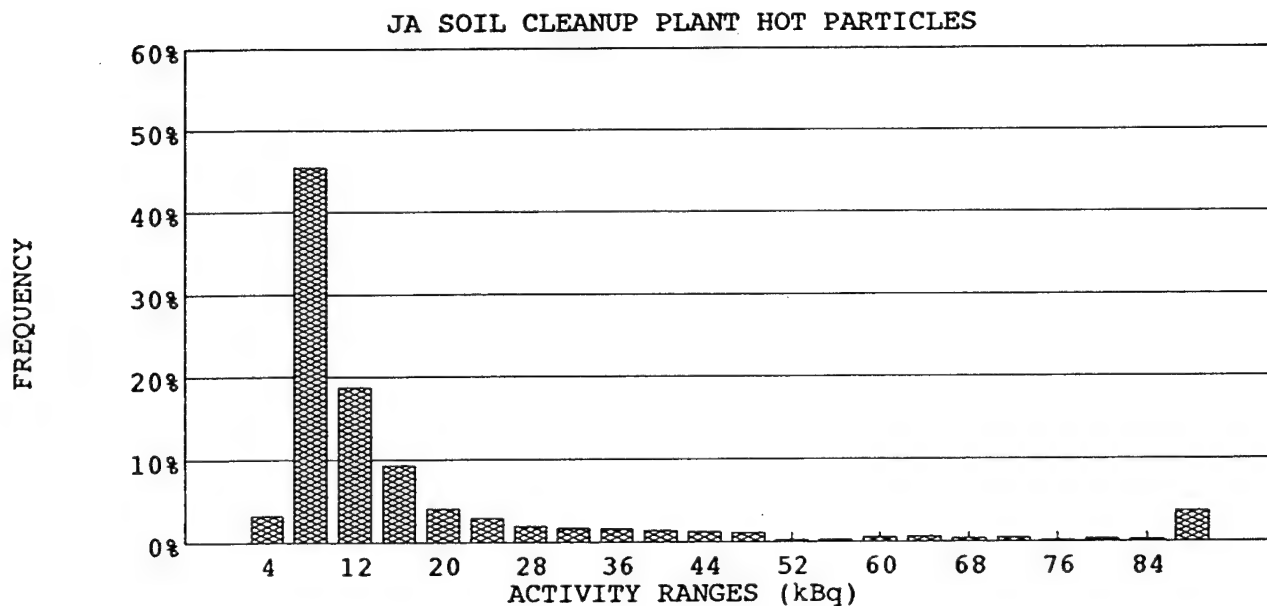
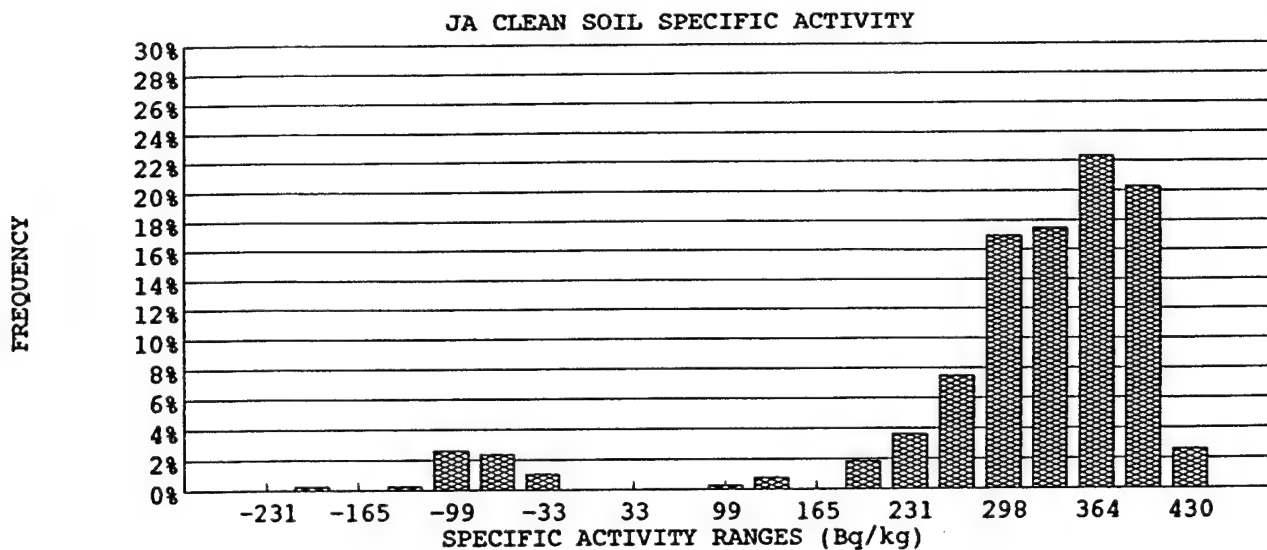
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.9 hr	9.9 hr	9.1 hr	9.1 hr	38.0 hr
SORTER START-UP	06:25	06:25	07:15	07:15	
START SOIL PROCESSING	07:41	07:41	07:37	07:37	
TIME REQUIRED TO START-UP	1.3 hr	1.3 hr	0.4 hr	0.4 hr	3.3 hr
SORTER SHUT-DOWN	16:20	16:20	16:20	16:20	
END SOIL PROCESSING	16:05	16:07	15:43	16:10	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.6 hr	0.2 hr	1.2 hr
ACTUAL PROCESS HOURS	3.1 hr	3.2 hr	7.4 hr	8.3 hr	22.0 hr
DOWN-TIME	6.8 hr	6.8 hr	1.7 hr	0.8 hr	16.0 hr
SYSTEM PAUSE	5.3 hr	5.3 hr	0.7 hr	0.3 hr	11.6 hr
SORTER NONAVAILABLE TIME	0.6 hr	0.6 hr	1.4 hr	1.4 hr	4.0 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	2.9 hr	2.9 hr	5.8 hr
PLANT PERFORMANCE					57.9%
PRODUCTIVITY					52.3%

PRODUCTIVITY

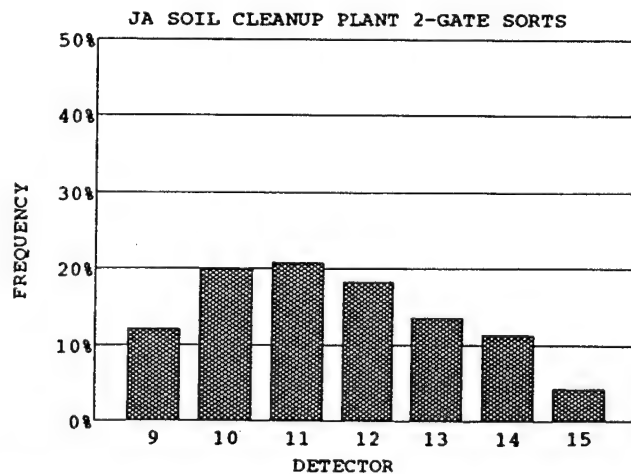
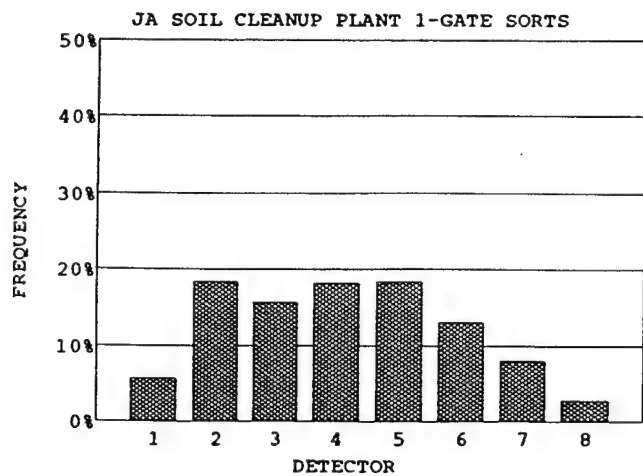
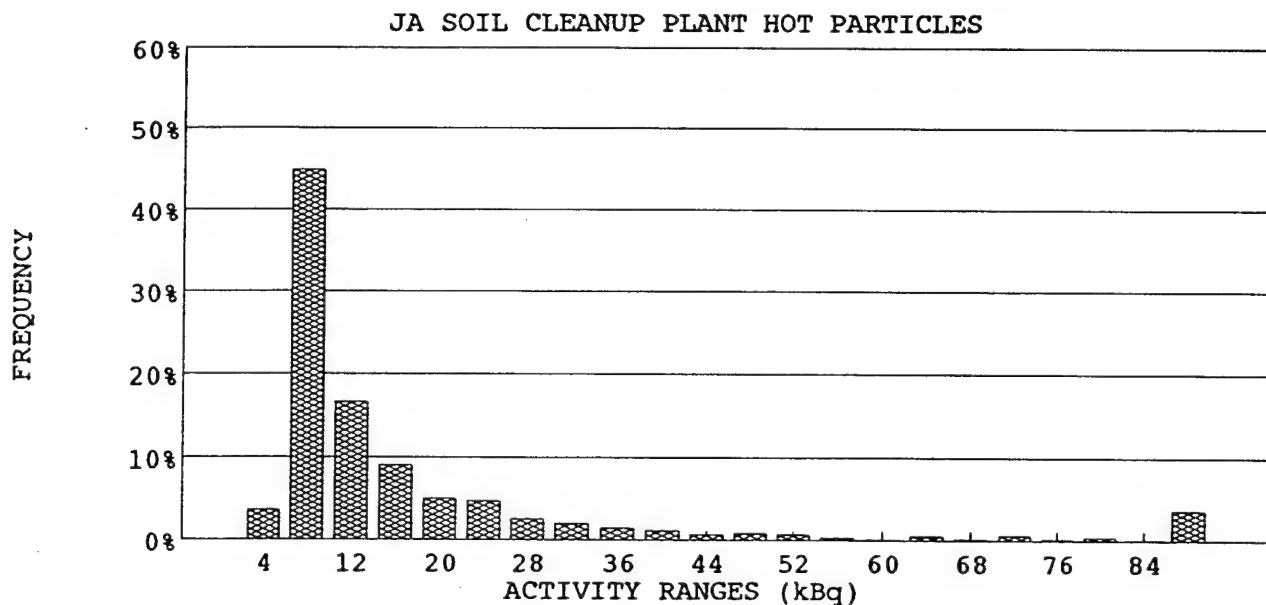
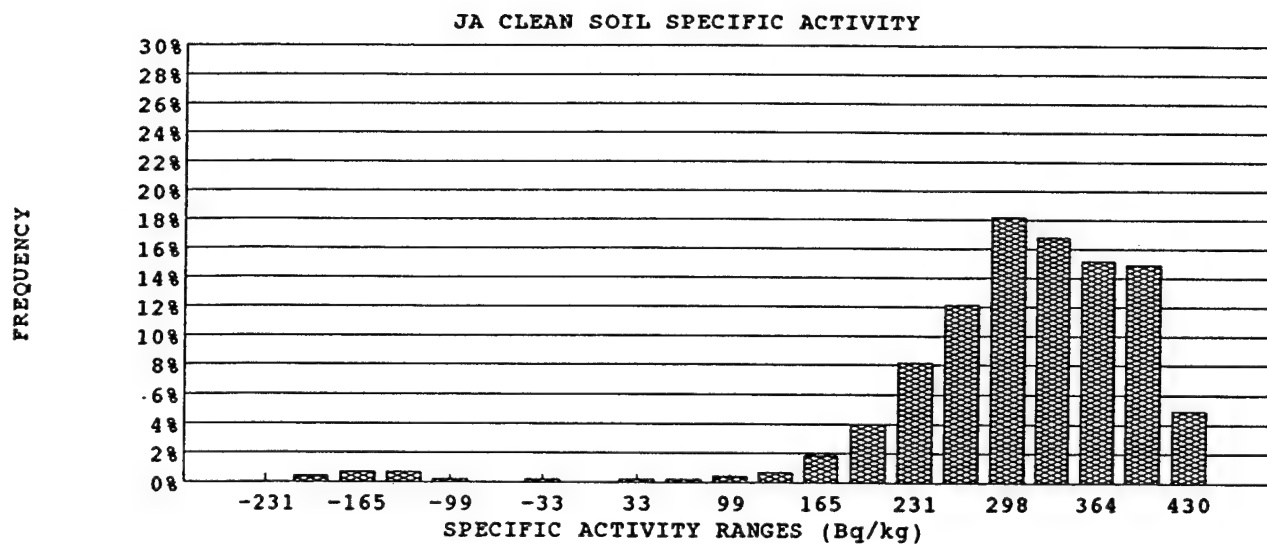
Date	20-Oct-94	Excused Delays for day (sorter-hrs)	5.8 hr
Contract day (from 6 Sep)	340	Excused delays for contract (sorter-hrs)	7,212 hr
Current Contract week	57	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	239 MT		
Cumulative Soil Production for Week	376 MT	Percent of contract completed	57.6%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,679 MT
Since 6 Sep 93	56,052 MT	Days ahead or behind schedule	5.3 days
Since 6 Aug 93	57,643 MT		
Total Soil production for project	83,930 MT		

MT = metric tons

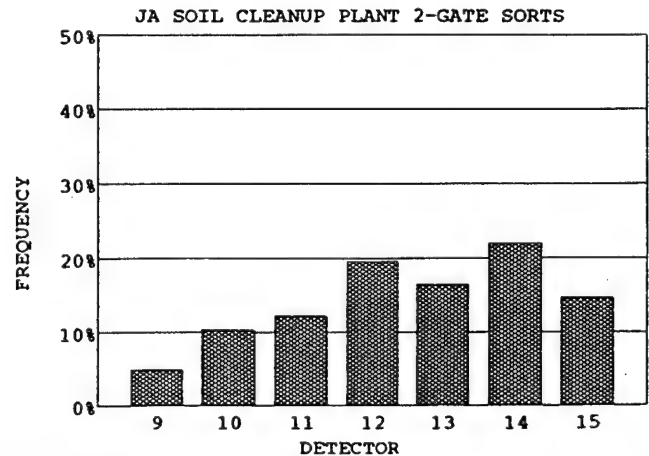
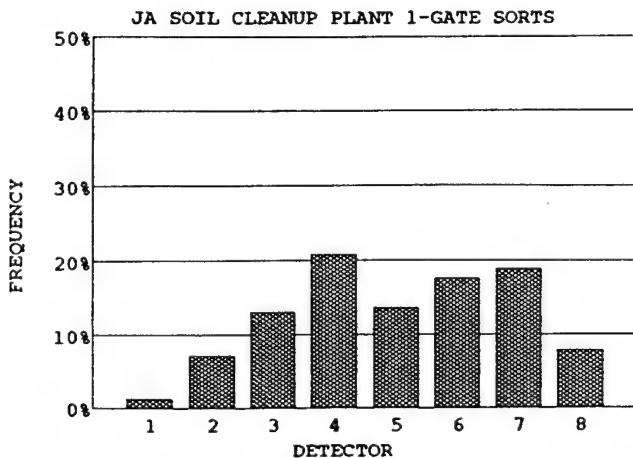
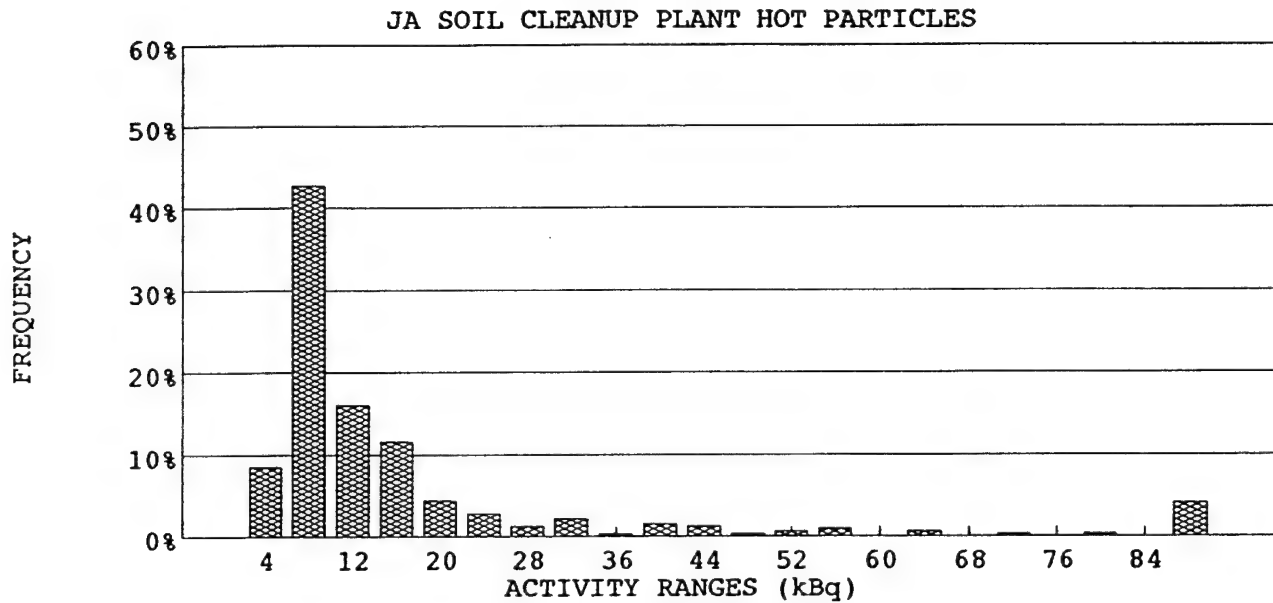
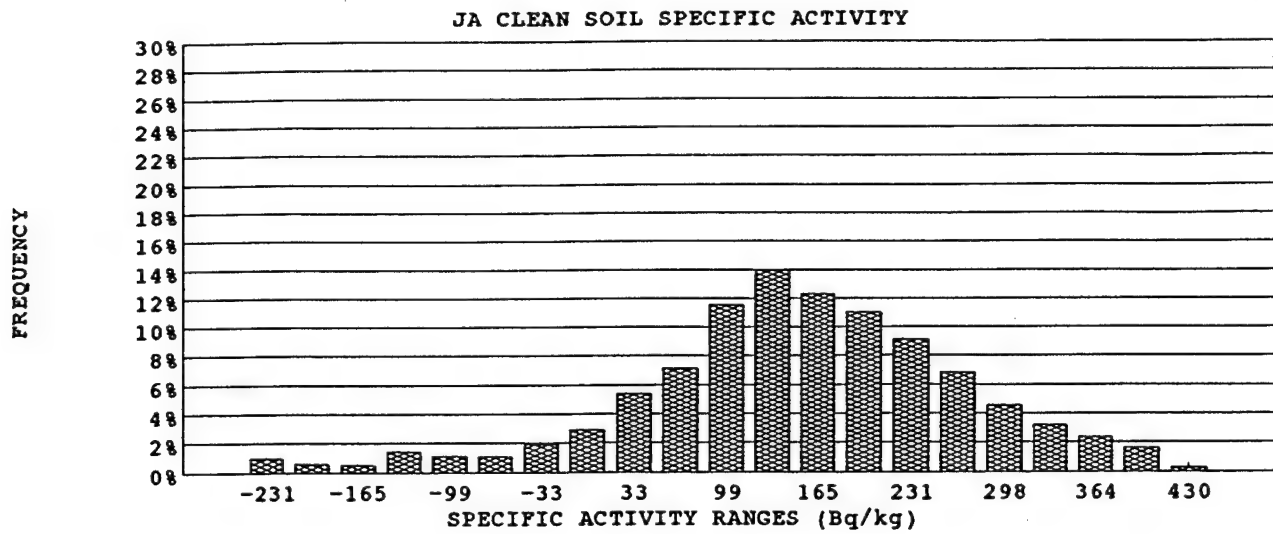
SORTER 1				20-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.70 ± 0.04 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		11.7 tons		22.3 tons		34.0 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		49.2 kg					
VOLUME IN-GROUND		9.3 yd³		17.7 yd³		27.0 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		65.6%							
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT		CLEAN	
TOTAL				26,650 kBq		11,073 kBq		6,908 kBq	
MAXIMUM/SORT				1,675 kBq		572 kBq		25 kBq	
MINIMUM/SORT				2 kBq		0 Bq		-12 kBq	
SPECIFIC ACTIVITY						946 Bq/kg		309 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS				562				UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				182				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				120				15:45 07:42	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				260				09:06	
UNEXPLAINED RECORDS				0				12:32	
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				5,620					
2-SEC RECORDS WITH SORTS				1,213					
2-SEC RECORDS WITHOUT SORTS				4,407					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,775					
NONPROCESSING RECORDS (Test, calibration, etc)				9					
2-SEC SORT DETECTORS									
1 DET		844	69.58%	5 DET		2	0.16%		
2 DET		294	24.24%	6 DET		0	0.00%		
3 DET		60	4.95%	7 DET		0	0.00%		
4 DET		13	1.07%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				13.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	26	4.1%	-14000	0	-231	0.0%	4	39	3.2%
2	70	11.0%	-12000	1	-198	0.3%	8	552	45.5%
3	109	17.2%	-10000	0	-165	0.0%	12	227	18.7%
4	116	18.3%	-8000	1	-132	0.3%	16	113	9.3%
5	138	21.8%	-6000	10	-99	2.6%	20	50	4.1%
6	90	14.2%	-4000	9	-66	2.3%	24	36	3.0%
7	73	11.5%	-2000	4	-33	1.0%	28	24	2.0%
8	12	1.9%	0	0	0	0.0%	32	21	1.7%
TOTAL	634		2000	0	33	0.0%	36	20	1.6%
			4000	0	66	0.0%	40	17	1.4%
2-GATE SORTS			6000	1	99	0.3%	44	15	1.2%
DET	SORTS	FREQ%	8000	3	132	0.8%	48	13	1.1%
9	56	9.7%	10000	0	165	0.0%	52	3	0.2%
10	81	14.0%	12000	7	198	1.8%	56	3	0.2%
11	109	18.8%	14000	14	231	3.6%	60	7	0.6%
12	108	18.7%	16000	29	264	7.5%	64	8	0.7%
13	113	19.5%	18000	66	298	17.0%	68	5	0.4%
14	64	11.1%	20000	68	331	17.5%	72	6	0.5%
15	48	8.3%	22000	87	364	22.4%	76	2	0.2%
TOTAL	579		24000	79	397	20.3%	80	4	0.3%
			26000	10	430	2.6%	84	3	0.2%
			>28000	0	0	0.0%	>84	45	3.7%
			TOTAL	389			TOTAL	1,213	
EVENT TYPES		HPE	1,168	MPE	261	DISE	14,037		



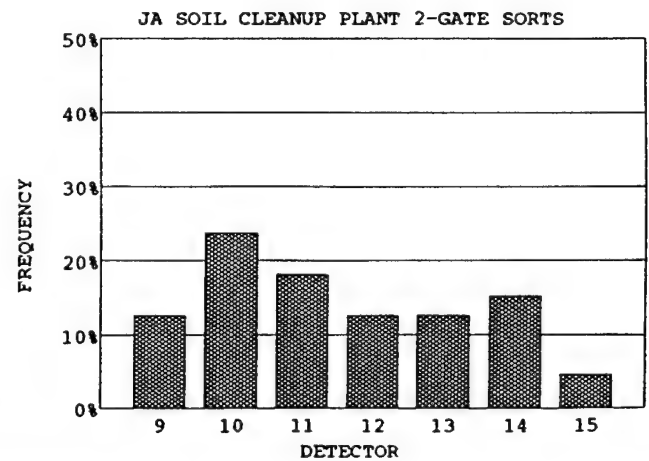
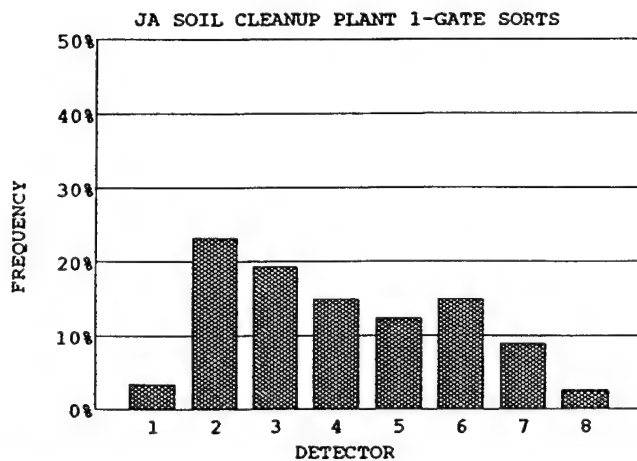
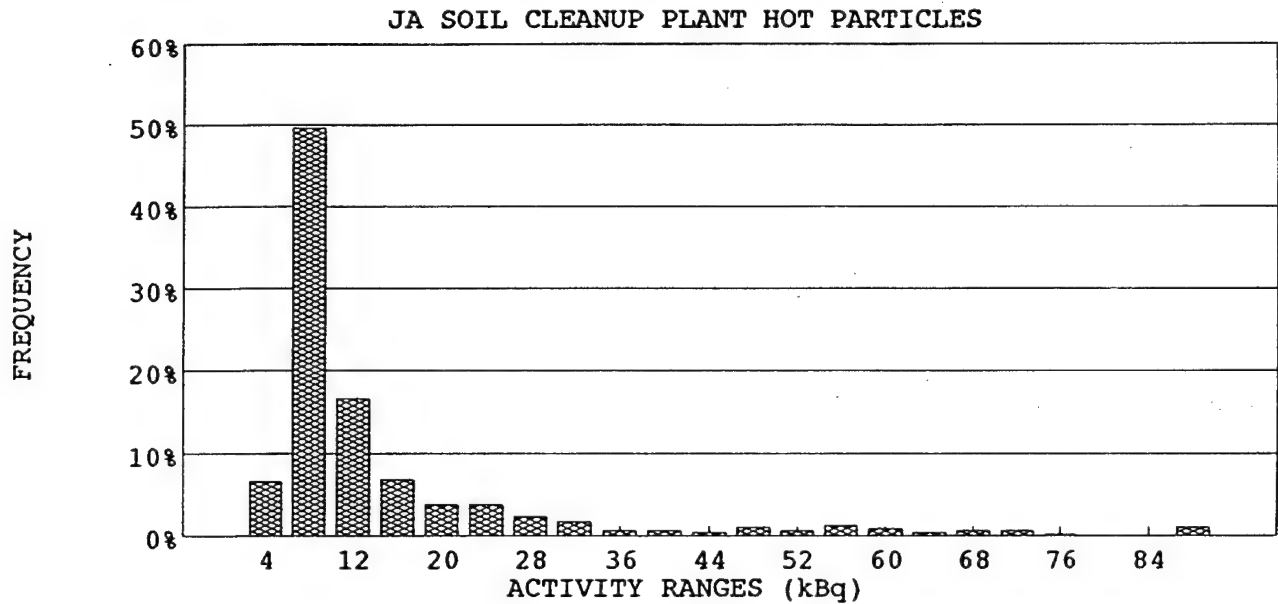
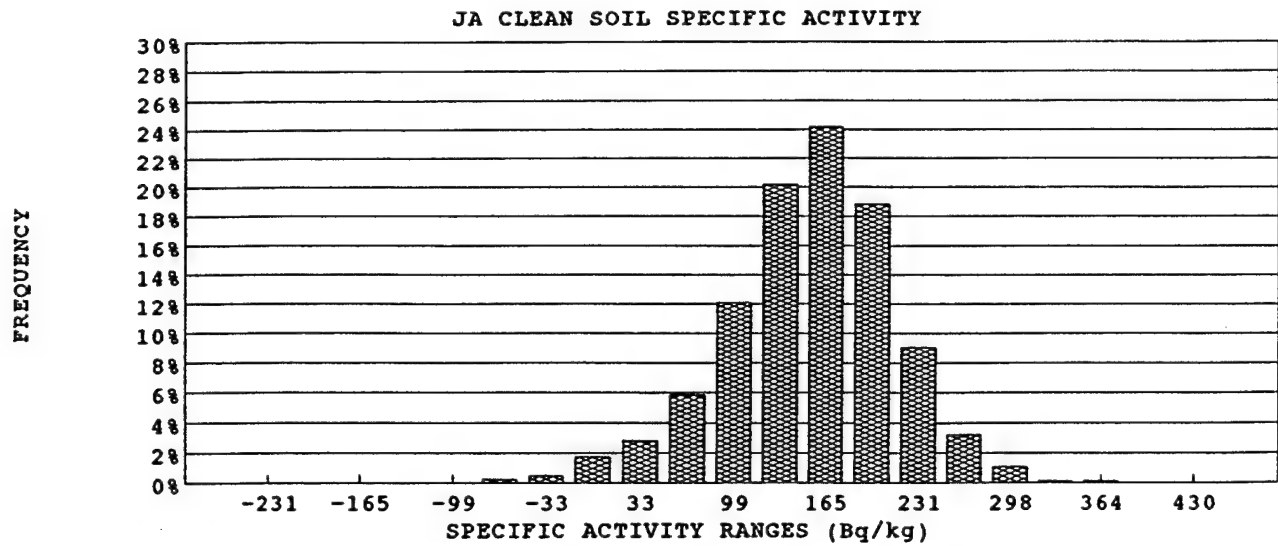
SORTER 2				20-Oct-94					
SORTER SOIL DENSITY			1.30 tons/m ³	BACKGROUND		0.77 ± 0.03 c/s			
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			9.3 tons	25.0 tons	34.3 tons				
MAXIMUM/SORT			63.0 kg	60.5 kg					
MINIMUM/SORT			0.8 kg	51.5 kg					
VOLUME IN-GROUND			7.3 yd ³	19.8 yd ³	27.2 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			73.0%						
ACTIVITY			DISPERSED + PARTICLE						
			PARTICLE	HOT	CLEAN				
TOTAL			30,351 kBq	12,303 kBq	7,502 kBq				
MAXIMUM/SORT			1,196 kBq	562 kBq	26 kBq				
MINIMUM/SORT			3 kBq	0 Bq	-13 kBq				
SPECIFIC ACTIVITY				1,329 Bq/kg	300 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				568	UNEXP	PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				140	TIME	TIME			
NONE (AD=0 & MD=0 & MND>0)				100	None	09:06			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				328		12:30			
UNEXPLAINED RECORDS				0		15:28			
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				5,680					
2-SEC RECORDS WITH SORTS				1,330					
2-SEC RECORDS WITHOUT SORTS				4,350					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,898					
NONPROCESSING RECORDS (Test, calibration, etc)				1					
2-SEC SORT DETECTORS									
1 DET		935 70.30%	5 DET	4	0.30%				
2 DET		312 23.46%	6 DET	0	0.00%				
3 DET		64 4.81%	7 DET	0	0.00%				
4 DET		15 1.13%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS				12.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	37	5.7%	-14000	0	-231	0.0%	4	49	3.7%
2	119	18.3%	-12000	2	-198	0.5%	8	596	44.8%
3	102	15.7%	-10000	3	-165	0.7%	12	222	16.7%
4	118	18.2%	-8000	3	-132	0.7%	16	121	9.1%
5	119	18.3%	-6000	1	-99	0.2%	20	67	5.0%
6	85	13.1%	-4000	0	-66	0.0%	24	63	4.7%
7	52	8.0%	-2000	1	-33	0.2%	28	34	2.6%
8	18	2.8%	0	0	0	0.0%	32	27	2.0%
TOTAL	650		2000	1	33	0.2%	36	20	1.5%
			4000	1	66	0.2%	40	16	1.2%
2-GATE SORTS			6000	2	99	0.5%	44	10	0.8%
DET	SORTS	FREQ%	8000	3	132	0.7%	48	12	0.9%
9	82	12.1%	10000	8	165	1.9%	52	10	0.8%
10	135	19.9%	12000	17	198	4.0%	56	4	0.3%
11	141	20.7%	14000	35	231	8.2%	60	1	0.1%
12	124	18.2%	16000	52	264	12.1%	64	8	0.6%
13	92	13.5%	18000	78	298	18.2%	68	3	0.2%
14	77	11.3%	20000	72	331	16.8%	72	9	0.7%
15	29	4.3%	22000	65	364	15.2%	76	3	0.2%
TOTAL	680		24000	64	397	14.9%	80	5	0.4%
			26000	21	430	4.9%	84	1	0.1%
			>28000	0	0	0.0%	>84	49	3.7%
			TOTAL	429			TOTAL	1,330	
EVENT TYPES		HPE	1,312	MPE	388	DISE	10,654		



SORTER 3				20-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.13 ± 0.59 c/s			
SOIL				CONTAMINATED		CLEAN			
MASS TOTAL		2.8 tons		78.1 tons		TOTAL			
MAXIMUM/SORT		63.0 kg		60.5 kg		80.9 tons			
MINIMUM/SORT		0.8 kg		54.5 kg					
VOLUME IN-GROUND		2.2 yd ³		61.9 yd ³		64.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		96.6%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		5,751 kBq		2,798 kBq		10,610 kBq			
MAXIMUM/SORT		296 kBq		148 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-19 kBq			
SPECIFIC ACTIVITY				1,006 Bq/kg		136 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,337		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				40		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,106		11:53 09:20			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				191		12:23 09:30			
UNEXPLAINED RECORDS				0		14:20 10:01			
0<AD<1kBq & MD>0				2		14:28 10:21			
AD=0 & MD>0				3		15:38 10:35			
AD<0 & MD >0				0		10:58			
2-SEC COUNT PERIODS				13,370		11:05			
2-SEC RECORDS WITH SORTS				318		11:18			
2-SEC RECORDS WITHOUT SORTS				13,052		11:26			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,655		11:29			
NONPROCESSING RECORDS (Test, calibration, etc)				10		11:33			
2-SEC SORT DETECTORS						11:42			
1 DET		248	77.99%	5 DET	0	0.00%	12:06		
2 DET		54	16.98%	6 DET	0	0.00%	12:15		
3 DET		12	3.77%	7 DET	0	0.00%	12:27		
4 DET		4	1.26%	8 DET	0	0.00%	More		
AVERAGE TIME BETWEEN 2- SEC SORTS				107.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	1.3%	-14000	13	-231	1.0%	4	27	8.5%
2	11	7.1%	-12000	8	-198	0.6%	8	136	42.8%
3	20	13.0%	-10000	7	-165	0.5%	12	51	16.0%
4	32	20.8%	-8000	19	-132	1.5%	16	37	11.6%
5	21	13.6%	-6000	15	-99	1.1%	20	14	4.4%
6	27	17.5%	-4000	14	-66	1.1%	24	9	2.8%
7	29	18.8%	-2000	25	-33	1.9%	28	4	1.3%
8	12	7.8%	0	38	0	2.9%	32	7	2.2%
TOTAL	154		2000	71	33	5.4%	36	1	0.3%
			4000	93	66	7.1%	40	5	1.6%
2-GATE SORTS			6000	151	99	11.6%	44	4	1.3%
DET	SORTS	FREQ%	8000	182	132	13.9%	48	1	0.3%
9	8	4.9%	10000	161	165	12.3%	52	2	0.6%
10	17	10.4%	12000	144	198	11.0%	56	3	0.9%
11	20	12.2%	14000	119	231	9.1%	60	0	0.0%
12	32	19.5%	16000	89	264	6.8%	64	2	0.6%
13	27	16.5%	18000	60	298	4.6%	68	0	0.0%
14	36	22.0%	20000	42	331	3.2%	72	1	0.3%
15	24	14.6%	22000	31	364	2.4%	76	0	0.0%
TOTAL	164		24000	21	397	1.6%	80	1	0.3%
			26000	4	430	0.3%	84	0	0.0%
			>28000	0	0	0.0%	>84	13	4.1%
			TOTAL	1,307			TOTAL	318	
EVENT TYPES		HPE	333	MPE	63	DISE	3,277		



SORTER 4				20-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.62 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.6 tons		89.6 tons		90.2 tons	
MAXIMUM/SORT				63.0 kg		60.5 kg			
MINIMUM/SORT				0.8 kg		56.0 kg			
VOLUME IN-GROUND				0.5 yd³		71.0 yd³		71.5 yd³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.4%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
						HOT		CLEAN	
TOTAL				6,583 kBq		1,618 kBq		12,416 kBq	
MAXIMUM/SORT				310 kBq		107 kBq		21 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-5 kBq	
SPECIFIC ACTIVITY						2,769 Bq/kg		139 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,490		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)						3		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)						1,236		10:05 11:49	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						251		11:55 12:14	
UNEXPLAINED RECORDS						0		12:33 14:11	
0<AD<1kBq & MD>0						4		16:03 14:45	
AD=0 & MD>0						0			
AD<0 & MD >0						0			
2-SEC COUNT PERIODS						14,900			
2-SEC RECORDS WITH SORTS						469			
2-SEC RECORDS WITHOUT SORTS						14,431			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						1,959			
NONPROCESSING RECORDS (Test, calibration, etc)						5			
2-SEC SORT DETECTORS									
1 DET		342	72.92%	5 DET		0	0.00%		
2 DET		111	23.67%	6 DET		0	0.00%		
3 DET		16	3.41%	7 DET		0	0.00%		
4 DET		0	0.00%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2- SEC SORTS						87.1 sec			
FREQUENCY DISTRIBUTIONS									
1-GATESORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	8	3.4%	-14000	0	-231	0.0%	4	31	6.6%
2	54	23.2%	-12000	0	-198	0.0%	8	233	49.7%
3	45	19.3%	-10000	0	-165	0.0%	12	78	16.6%
4	35	15.0%	-8000	0	-132	0.0%	16	32	6.8%
5	29	12.4%	-6000	0	-99	0.0%	20	18	3.8%
6	35	15.0%	-4000	4	-66	0.3%	24	18	3.8%
7	21	9.0%	-2000	7	-33	0.5%	28	11	2.3%
8	6	2.6%	0	26	0	1.7%	32	8	1.7%
TOTAL	233		2000	42	33	2.8%	36	3	0.6%
			4000	87	66	5.8%	40	3	0.6%
2-GATESORTS			6000	180	99	12.1%	44	2	0.4%
DET	SORTS	FREQ%	8000	301	132	20.2%	48	5	1.1%
9	30	12.7%	10000	360	165	24.1%	52	3	0.6%
10	56	23.7%	12000	281	198	18.8%	56	6	1.3%
11	43	18.2%	14000	135	231	9.1%	60	4	0.9%
12	30	12.7%	16000	48	264	3.2%	64	2	0.4%
13	30	12.7%	18000	16	298	1.1%	68	3	0.6%
14	36	15.3%	20000	2	331	0.1%	72	3	0.6%
15	11	4.7%	22000	2	364	0.1%	76	1	0.2%
TOTAL	236		24000	0	397	0.0%	80	0	0.0%
			26000	0	430	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	5	1.1%
			TOTAL	1,491			TOTAL	469	
EVENT TYPES		HPE	482	MPE	39	DISE	249		



WORK HISTORY - JA SOIL CLEANUP PLANT

21-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

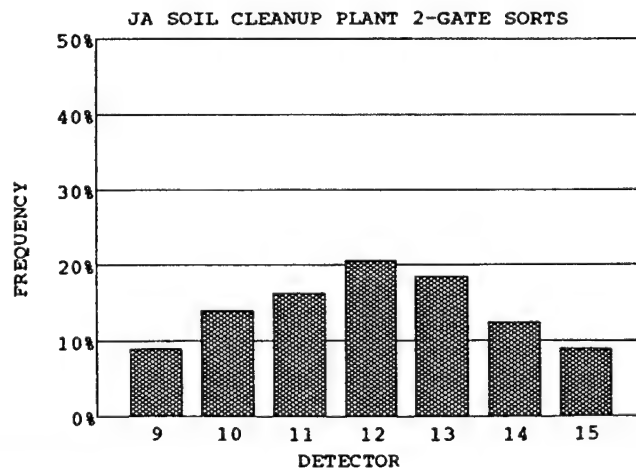
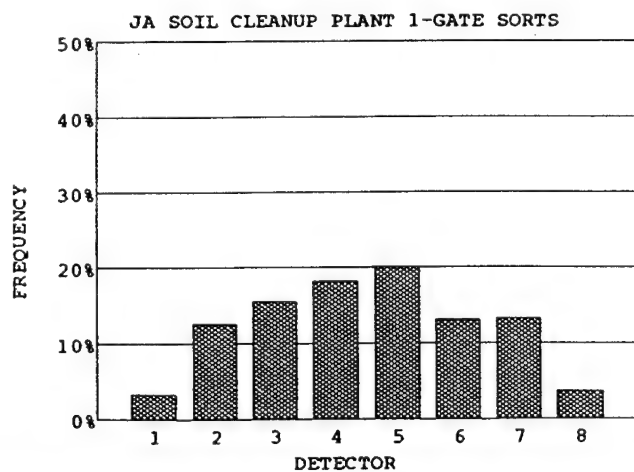
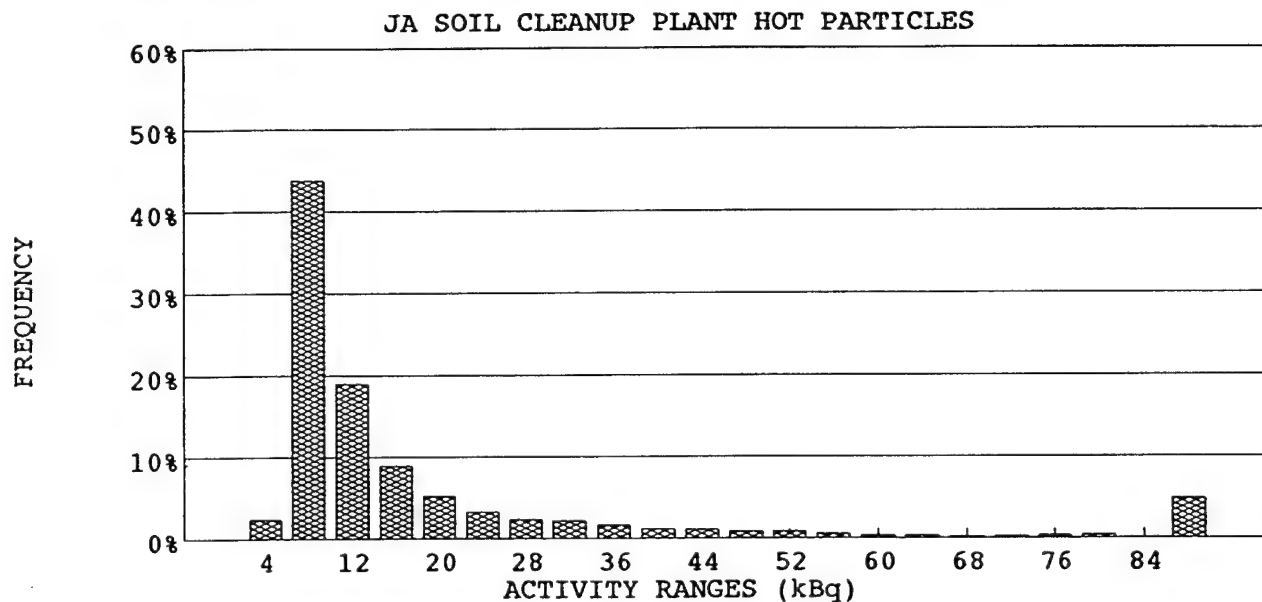
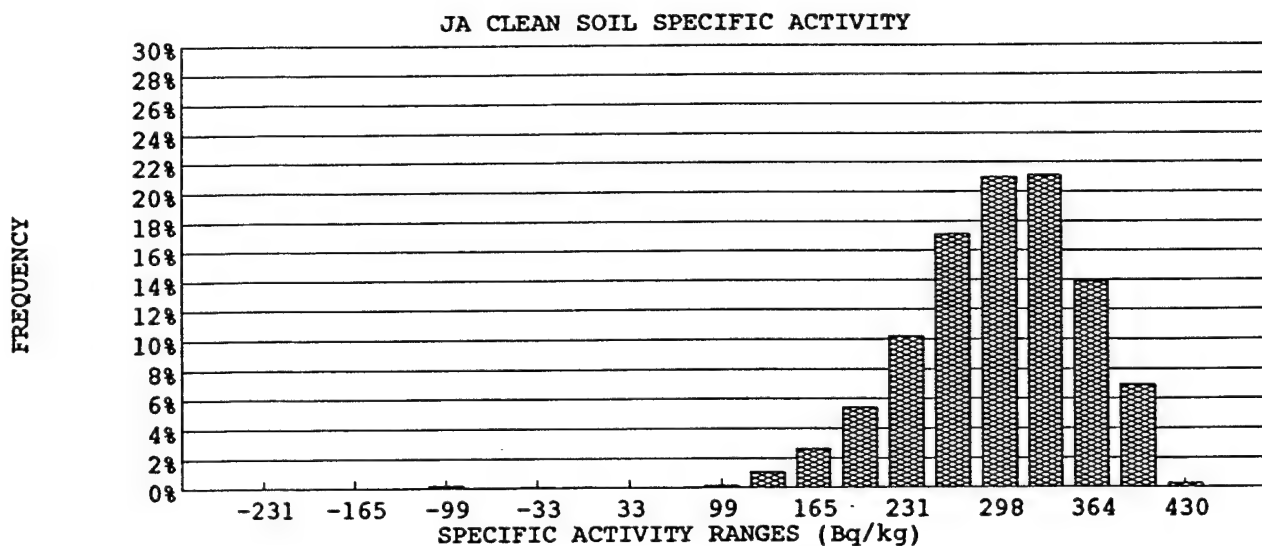
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	10.2 hr	10.2 hr	9.9 hr	9.9 hr	40.2 hr
SORTER START-UP	06:20	06:20	06:20	06:20	
START SOIL PROCESSING	06:31	06:31	06:32	06:31	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.2 hr	0.2 hr	0.8 hr
SORTER SHUT-DOWN	16:30	16:30	16:15	16:15	
END SOIL PROCESSING	16:19	16:21	15:58	15:54	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.1 hr	0.3 hr	0.3 hr	0.9 hr
ACTUAL PROCESS HOURS	9.8 hr	9.8 hr	9.4 hr	9.4 hr	38.4 hr
DOWN-TIME	0.4 hr	0.3 hr	0.5 hr	0.5 hr	1.7 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	0.6 hr	0.6 hr	1.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					95.7%
PRODUCTIVITY					91.5%

PRODUCTIVITY

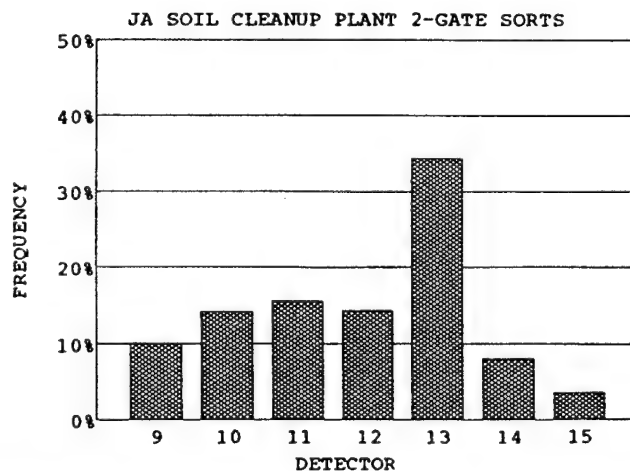
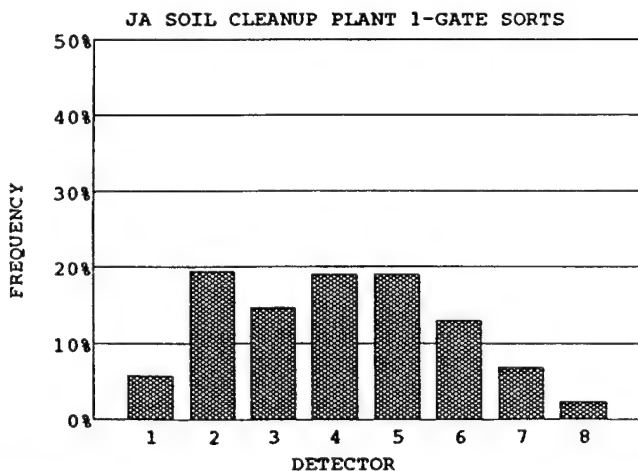
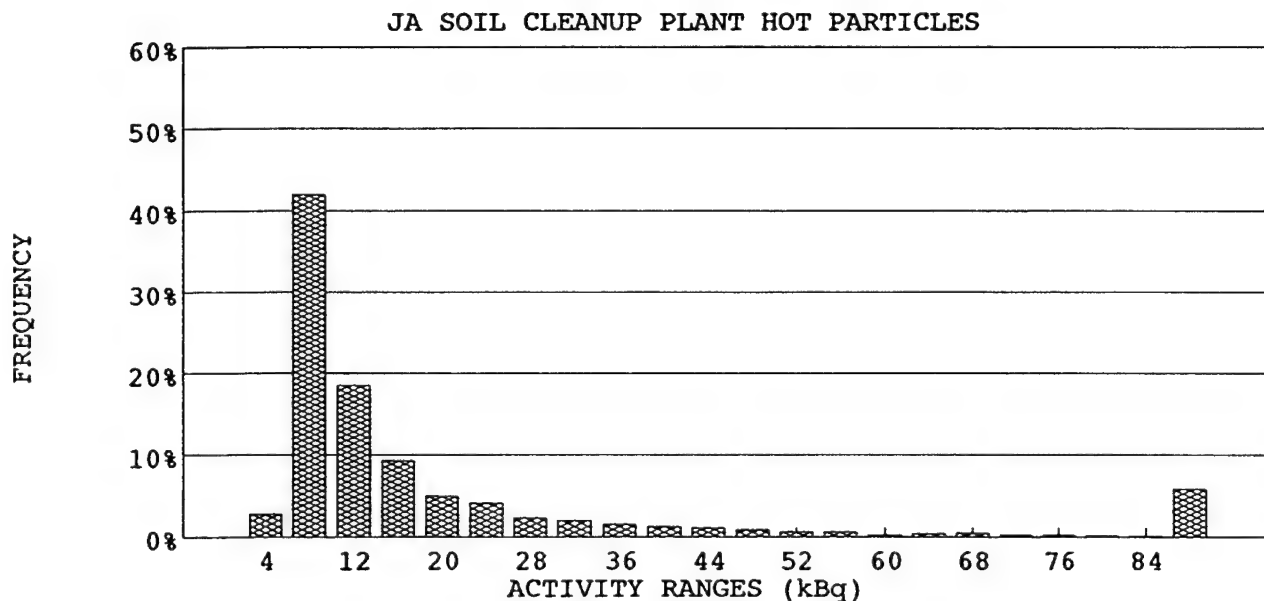
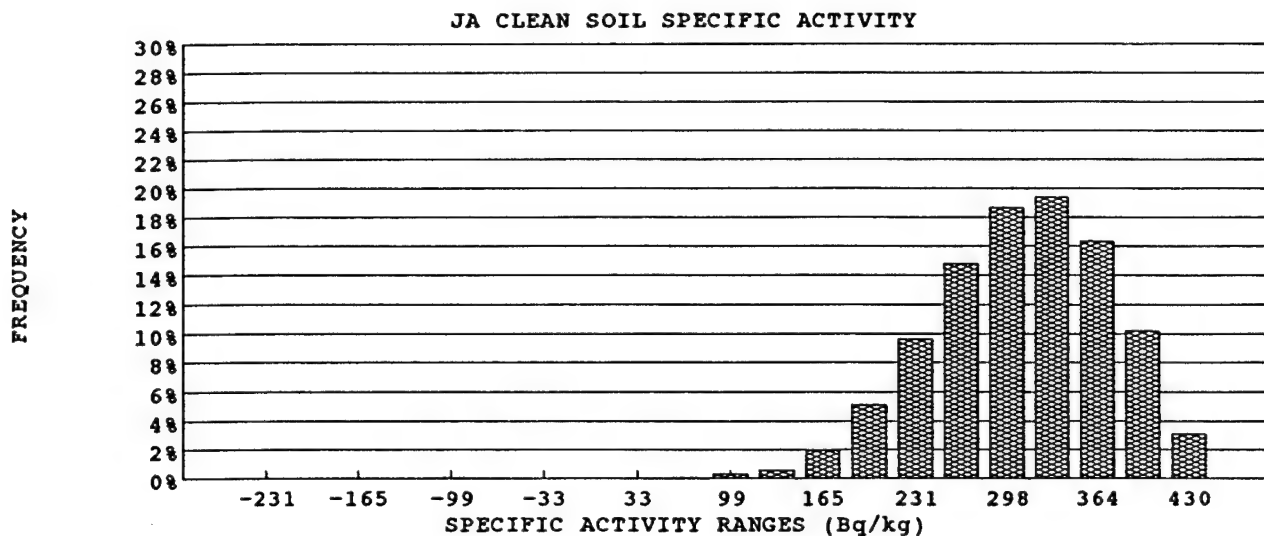
Date	21-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	341	Excused delays for contract (sorter-hrs)	7,212 hr
Current Contract week	57	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	418 MT		
Cumulative Soil Production for Week	794 MT	Percent of contract completed	58.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,781 MT
Since 6 Sep 93	56,471 MT	Days ahead or behind schedule	5.6 days
Since 6 Aug 93	58,062 MT		
Total Soil production for project	84,348 MT		

MT = metric tons

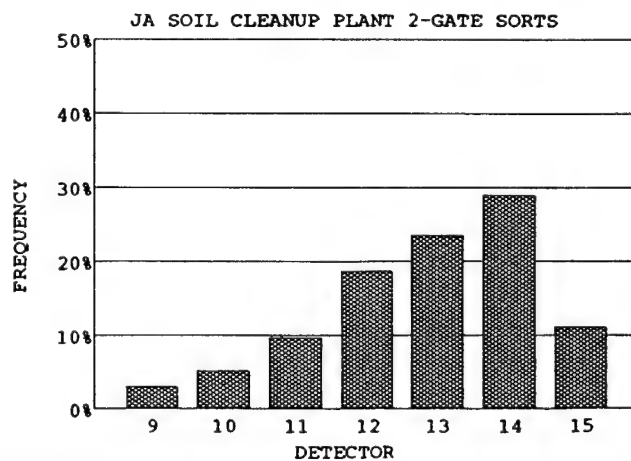
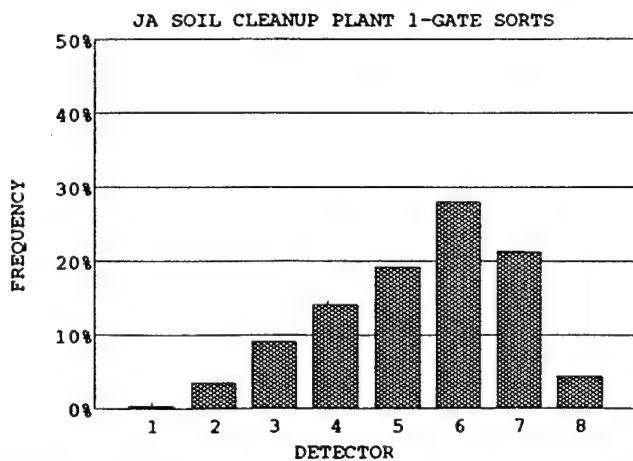
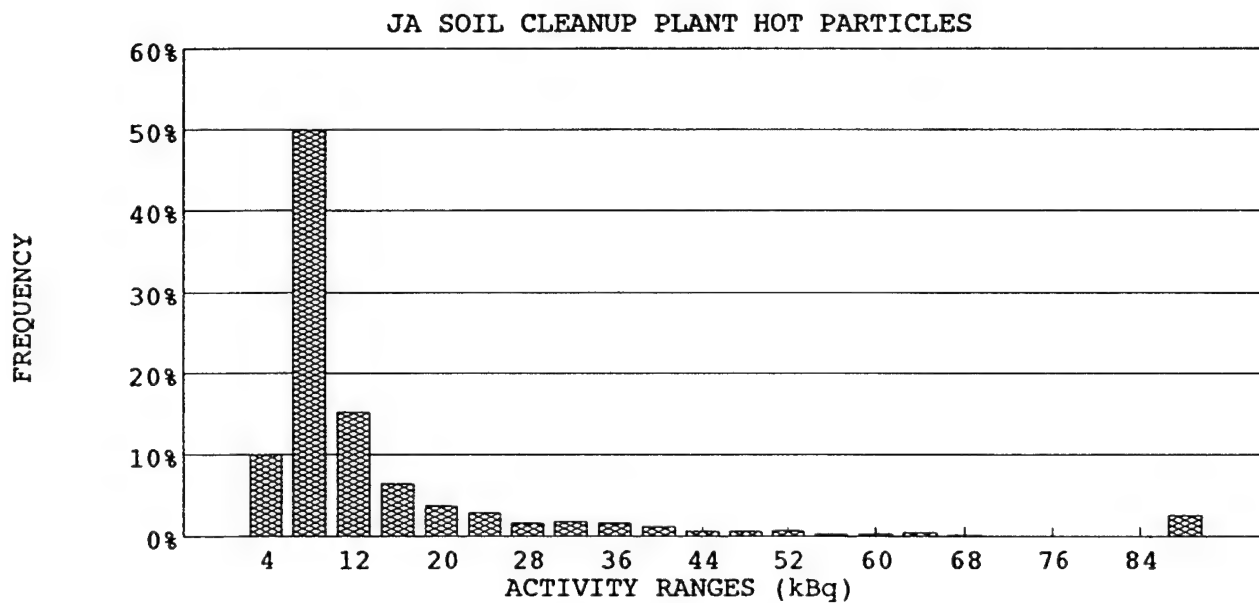
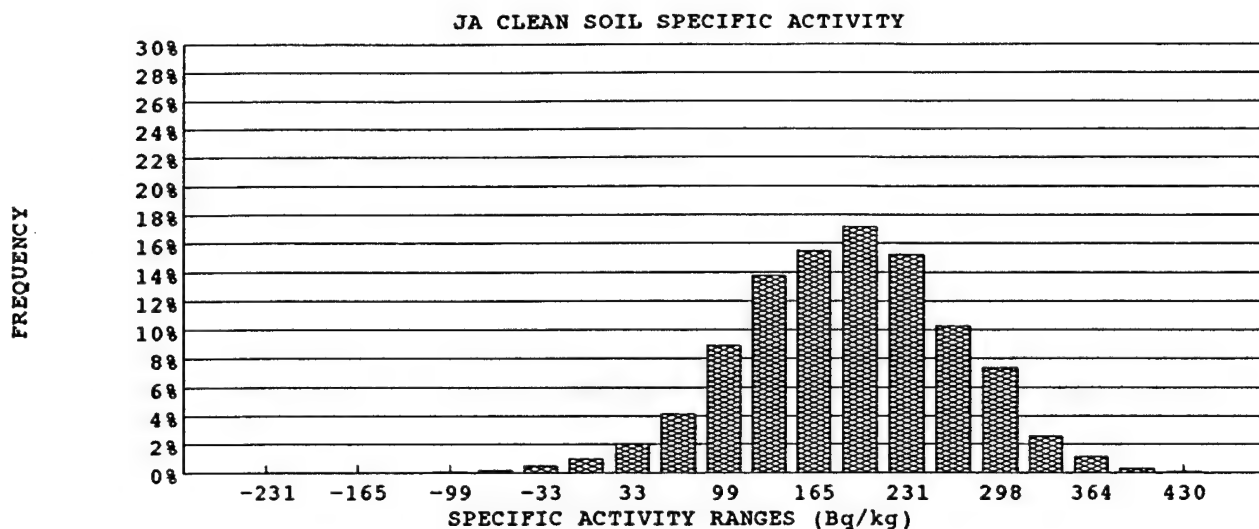
SORTER 1				21-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.70 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		9.1 tons		97.6 tons		106.7 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		48.4 kg					
VOLUME IN-GROUND		7.2 yd ³		77.3 yd ³		84.6 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		91.4%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		112,723 kBq		26,201 kBq		28,233 kBq			
MAXIMUM/SORT		7,549 kBq		2,849 kBq		24 kBq			
MINIMUM/SORT		2 kBq		0 Bq		0 kBq			
SPECIFIC ACTIVITY				2,865 Bq/kg		289 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,763		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				104		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				467		09:28 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,192		09:34			
UNEXPLAINED RECORDS				0		13:50			
0<AD<1kBq & MD>0				4		14:17			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,630					
2-SEC RECORDS WITH SORTS				3,507					
2-SEC RECORDS WITHOUT SORTS				14,123					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,270					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET		2,465	70.29%	5 DET	7	0.20%			
2 DET		807	23.01%	6 DET	0	0.00%			
3 DET		185	5.28%	7 DET	0	0.00%			
4 DET		43	1.23%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				14.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	59	3.3%	-14000	0	-231	0.0%	4	83	2.4%
2	222	12.6%	-12000	0	-198	0.0%	8	1,536	43.8%
3	275	15.6%	-10000	0	-165	0.0%	12	666	19.0%
4	322	18.3%	-8000	0	-132	0.0%	16	314	9.0%
5	355	20.1%	-6000	3	-99	0.2%	20	185	5.3%
6	232	13.2%	-4000	0	-66	0.0%	24	115	3.3%
7	234	13.3%	-2000	1	-33	0.1%	28	82	2.3%
8	65	3.7%	0	1	0	0.1%	32	77	2.2%
TOTAL	1,764		2000	0	33	0.0%	36	58	1.7%
			4000	0	66	0.0%	40	40	1.1%
2-GATE SORTS			6000	2	99	0.1%	44	37	1.1%
DET	SORTS	FREQ%	8000	17	132	1.0%	48	29	0.8%
9	157	9.0%	10000	44	165	2.6%	52	31	0.9%
10	245	14.1%	12000	90	198	5.4%	56	19	0.5%
11	285	16.4%	14000	170	231	10.2%	60	11	0.3%
12	360	20.7%	16000	285	264	17.1%	64	12	0.3%
13	322	18.5%	18000	349	298	21.0%	68	7	0.2%
14	217	12.4%	20000	351	331	21.1%	72	8	0.2%
15	157	9.0%	22000	231	364	13.9%	76	10	0.3%
TOTAL	1,743		24000	116	397	7.0%	80	13	0.4%
			26000	4	430	0.2%	84	3	0.1%
			>28000	0	0	0.0%	>84	171	4.9%
			TOTAL	1,664			TOTAL	3,507	
EVENT TYPES		HPE	3,458	MPE	569	DISE	8,054		



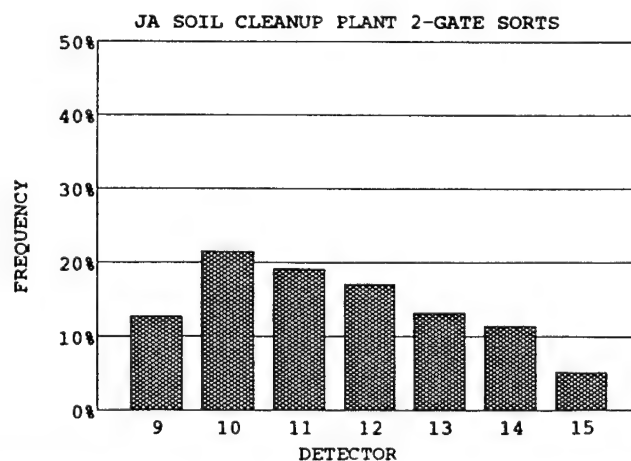
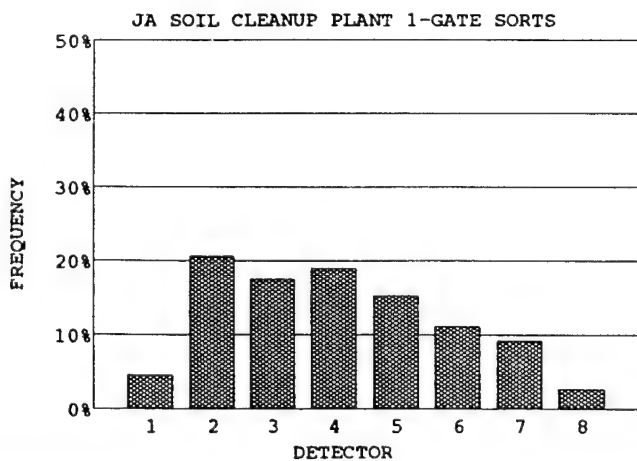
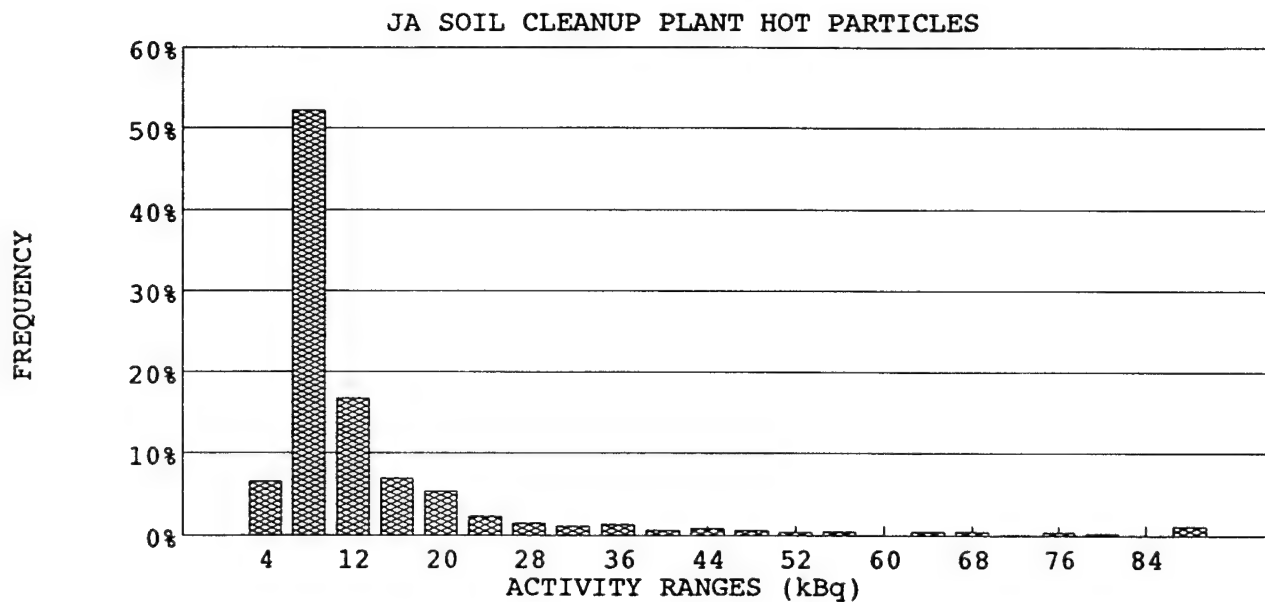
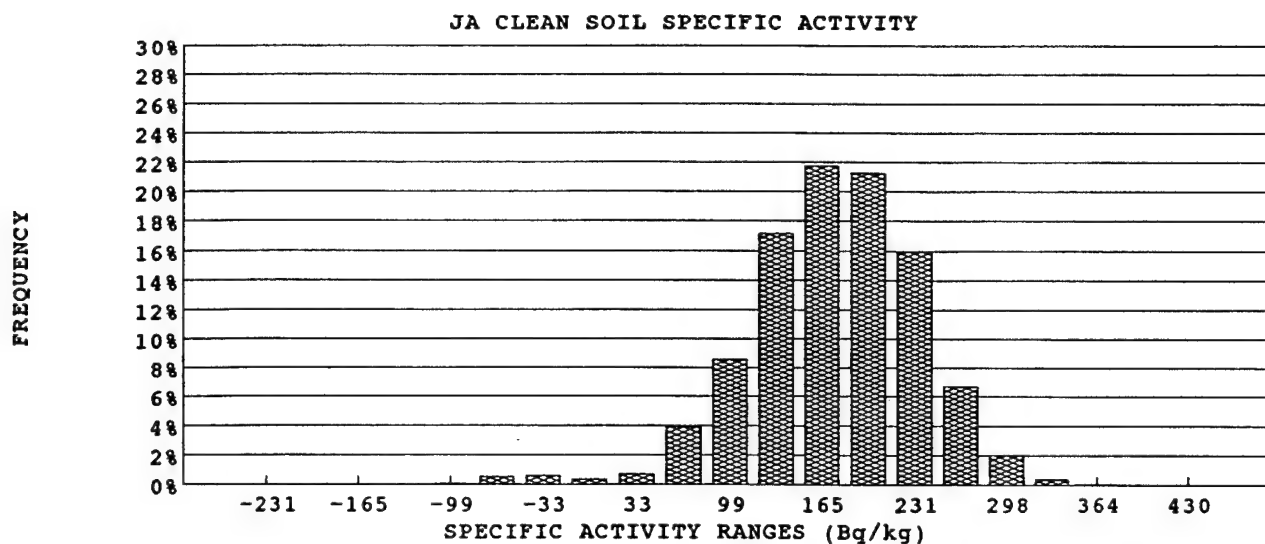
SORTER 2				21-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.78 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		13.1 tons		93.7 tons		106.9 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		50.7 kg					
VOLUME IN-GROUND		10.4 yd³		74.3 yd³		84.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		87.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		138,244 kBq		27,590 kBq		28,440 kBq			
MAXIMUM/SORT		3,464 kBq		1,626 kBq		26 kBq			
MINIMUM/SORT		3 kBq		(101)Bq		-7 kBq			
SPECIFIC ACTIVITY				2,099 Bq/kg		303 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,771		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				160		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				315		06:59 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,295		07:32			
UNEXPLAINED RECORDS				1		07:33			
0<AD<1kBq & MD>0				19		07:36			
AD=0 & MD>0				0		07:47			
AD<0 & MD >0				1		07:48			
2-SEC COUNT PERIODS				17,710		07:48			
2-SEC RECORDS WITH SORTS				4,147		07:51			
2-SEC RECORDS WITHOUT SORTS				13,563		08:23			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				5,918		09:49			
NONPROCESSING RECORDS (Test, calibration, etc)				0		09:55			
2-SEC SORT DETECTORS						10:45			
1 DET		3,086	74.42%	5 DET		13	0.31% 10:46		
2 DET		846	20.40%	6 DET		0	0.00% 10:56		
3 DET		172	4.15%	7 DET		3	0.07% 10:57		
4 DET		30	0.72%	8 DET		0	0.00% More		
AVERAGE TIME BETWEEN 2-SEC SORTS				11.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	100	5.8%	-14000	0	-231	0.0%	4	116	2.8%
2	335	19.4%	-12000	0	-198	0.0%	8	1,741	42.0%
3	253	14.6%	-10000	0	-165	0.0%	12	769	18.5%
4	329	19.1%	-8000	0	-132	0.0%	16	385	9.3%
5	328	19.0%	-6000	1	-99	0.1%	20	206	5.0%
6	224	13.0%	-4000	0	-66	0.0%	24	170	4.1%
7	118	6.8%	-2000	0	-33	0.0%	28	97	2.3%
8	40	2.3%	0	0	0	0.0%	32	83	2.0%
TOTAL	1,727		2000	0	33	0.0%	36	66	1.6%
2-GATE SORTS			4000	1	66	0.1%	40	52	1.3%
			6000	5	99	0.3%	44	47	1.1%
DET	SORTS	FREQ%	8000	9	132	0.6%	48	37	0.9%
9	244	10.1%	10000	31	165	1.9%	52	26	0.6%
10	342	14.1%	12000	82	198	5.1%	56	28	0.7%
11	376	15.5%	14000	155	231	9.6%	60	12	0.3%
12	346	14.3%	16000	238	264	14.8%	64	16	0.4%
13	831	34.3%	18000	300	298	18.6%	68	22	0.5%
14	194	8.0%	20000	312	331	19.4%	72	10	0.2%
15	87	3.6%	22000	263	364	16.3%	76	11	0.3%
TOTAL	2,420		24000	164	397	10.2%	80	8	0.2%
			26000	50	430	3.1%	84	4	0.1%
			>28000	0	0	0.0%	>84	241	5.8%
			TOTAL	1,611			TOTAL	4,147	
EVENT TYPES		HPE	4,593	MPE	944	DISE	12,273		



SORTER 3				21-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.16 ± 0.27 c/s			
SOIL				CONTAMINATED		CLEAN			
MASS TOTAL				0.7 tons		102.0 tons			
MAXIMUM/SORT				60.5 kg		60.5 kg			
MINIMUM/SORT				0.8 kg		55.2 kg			
VOLUME IN-GROUND				0.6 yd ³		80.8 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.3%		81.4 yd ³			
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE		HOT			
TOTAL				10,749 kBq		3,077 kBq			
MAXIMUM/SORT				745 kBq		285 kBq			
MINIMUM/SORT				2 kBq		0 Bq			
SPECIFIC ACTIVITY						4,416 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,697		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,279		09:30 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				417		15:08			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,970					
2-SEC RECORDS WITH SORTS				671					
2-SEC RECORDS WITHOUT SORTS				16,299					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,368					
NONPROCESSING RECORDS (Test, calibration, etc)				5					
2-SEC SORT DETECTORS									
1 DET 520 77.50%				5 DET 0 0.00%					
2 DET 130 19.37%				6 DET 0 0.00%					
3 DET 18 2.68%				7 DET 0 0.00%					
4 DET 3 0.45%				8 DET 0 0.00%					
AVERAGE TIME BETWEEN 2-SEC SORTS				65.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	0.3%	-14000	0	-231	0.0%	4	67	10.0%
2	12	3.5%	-12000	0	-198	0.0%	8	335	49.9%
3	31	9.1%	-10000	0	-165	0.0%	12	102	15.2%
4	48	14.2%	-8000	0	-132	0.0%	16	43	6.4%
5	65	19.2%	-6000	1	-99	0.1%	20	25	3.7%
6	95	28.0%	-4000	3	-66	0.2%	24	19	2.8%
7	72	21.2%	-2000	8	-33	0.5%	28	11	1.6%
8	15	4.4%	0	16	0	0.9%	32	12	1.8%
TOTAL	339		2000	35	33	2.1%	36	11	1.6%
			4000	70	66	4.1%	40	8	1.2%
2-GATE SORTS			6000	151	99	8.9%	44	4	0.6%
DET	SORTS	FREQ%	8000	234	132	13.8%	48	4	0.6%
9	10	3.0%	10000	263	165	15.5%	52	5	0.7%
10	17	5.1%	12000	292	198	17.2%	56	2	0.3%
11	32	9.6%	14000	259	231	15.2%	60	2	0.3%
12	62	18.7%	16000	175	264	10.3%	64	3	0.4%
13	78	23.5%	18000	125	298	7.3%	68	1	0.1%
14	96	28.9%	20000	44	331	2.6%	72	0	0.0%
15	37	11.1%	22000	19	364	1.1%	76	0	0.0%
TOTAL	332		24000	5	397	0.3%	80	0	0.0%
			26000	1	430	0.1%	84	0	0.0%
			>28000	0	0	0.0%	>84	17	2.5%
			TOTAL	1,701			TOTAL	671	
EVENT TYPES		HPE	702	MPE	138	DISE	76		



SORTER 4				21-Oct-94						
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.63 ± 0.02 c/s				
SOIL				CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL				0.7 tons		101.5 tons		102.2 tons		
MAXIMUM/SORT				6.1 kg		60.5 kg				
MINIMUM/SORT				0.8 kg		54.5 kg				
VOLUME IN-GROUND				0.6 yd³		80.4 yd³		81.0 yd³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.3%						
ACTIVITY				PARTICLE		DISPERSED + PARTICLE				
TOTAL				10,492 kBq		2,657 kBq		16,243 kBq		
MAXIMUM/SORT				284 kBq		136 kBq		20 kBq		
MINIMUM/SORT				2 kBq		0 Bq		-6 kBq		
SPECIFIC ACTIVITY						3,813 Bq/kg		160 Bq/kg		
SORTS										
20-SEC PROCESS PERIODS				1,689				UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME		
NONE (AD=0 & MD=0 & MND>0)				1,249				09:05 None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				440				11:03		
UNEXPLAINED RECORDS				0				12:32		
0<AD<1kBq & MD>0				7				13:36		
AD=0 & MD>0				0				14:19		
AD<0 & MD >0				0				14:48		
2-SEC COUNT PERIODS				16,890				15:11		
2-SEC RECORDS WITH SORTS				799						
2-SEC RECORDS WITHOUT SORTS				16,091						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,488						
NONPROCESSING RECORDS (Test, calibration, etc)				13						
2-SEC SORT DETECTORS										
1 DET		593	74.22%	5 DET		1	0.13%			
2 DET		176	22.03%	6 DET		0	0.00%			
3 DET		26	3.25%	7 DET		0	0.00%			
4 DET		3	0.38%	8 DET		0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				57.0 sec						
FREQUENCY DISTRIBUTIONS										
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	19	4.6%	-14000	0	-231	0.0%	4	52	6.5%	
2	85	20.6%	-12000	0	-198	0.0%	8	417	52.2%	
3	72	17.5%	-10000	0	-165	0.0%	12	134	16.8%	
4	78	18.9%	-8000	0	-132	0.0%	16	55	6.9%	
5	63	15.3%	-6000	1	-99	0.1%	20	43	5.4%	
6	46	11.2%	-4000	9	-66	0.5%	24	19	2.4%	
7	38	9.2%	-2000	10	-33	0.6%	28	12	1.5%	
8	11	2.7%	0	6	0	0.4%	32	9	1.1%	
TOTAL	412		2000	12	33	0.7%	36	11	1.4%	
			4000	66	66	3.9%	40	5	0.6%	
2-GATE SORTS			6000	146	99	8.6%	44	7	0.9%	
DET	SORTS	FREQ%	8000	292	132	17.2%	48	5	0.6%	
9	49	12.7%	10000	370	165	21.7%	52	3	0.4%	
10	83	21.4%	12000	362	198	21.3%	56	4	0.5%	
11	74	19.1%	14000	271	231	15.9%	60	0	0.0%	
12	66	17.1%	16000	114	264	6.7%	64	4	0.5%	
13	51	13.2%	18000	35	298	2.1%	68	4	0.5%	
14	44	11.4%	20000	7	331	0.4%	72	1	0.1%	
15	20	5.2%	22000	1	364	0.1%	76	3	0.4%	
TOTAL	387		24000	0	397	0.0%	80	2	0.3%	
			26000	0	430	0.0%	84	0	0.0%	
			>28000	0	0	0.0%	>84	9	1.1%	
			TOTAL	1,702			TOTAL	799		
EVENT TYPES		HPE	826	MPE	90	DISE	0			



WORK HISTORY - JA SOIL CLEANUP PLANT

22-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

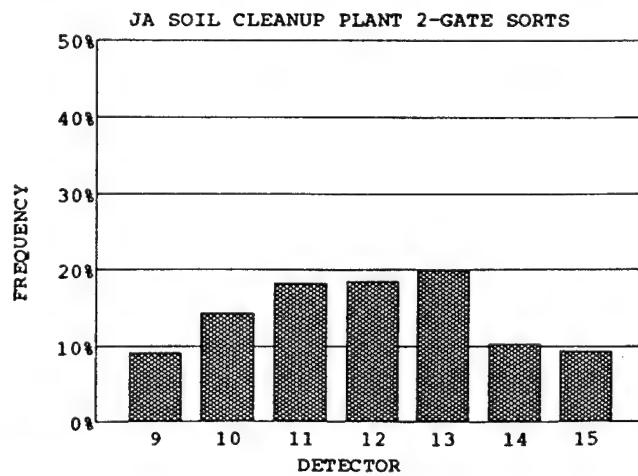
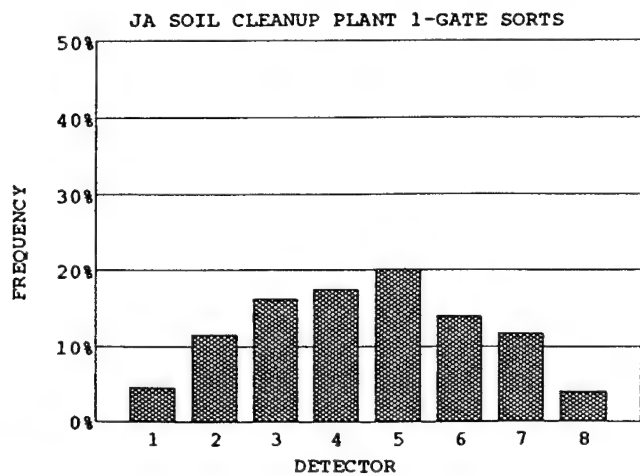
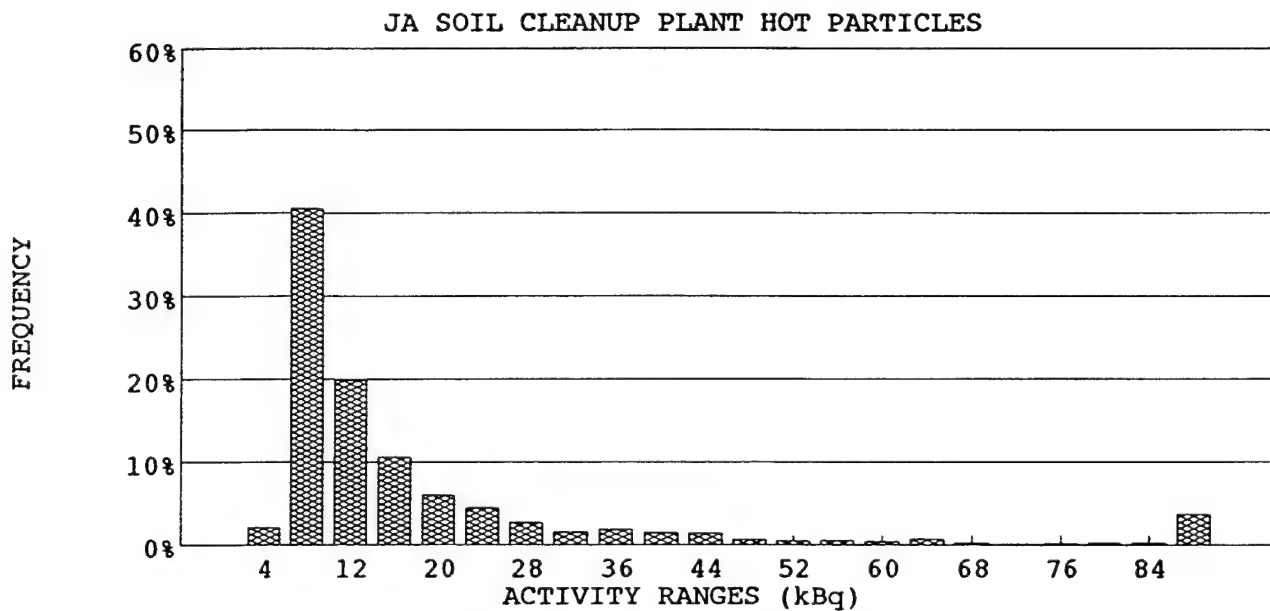
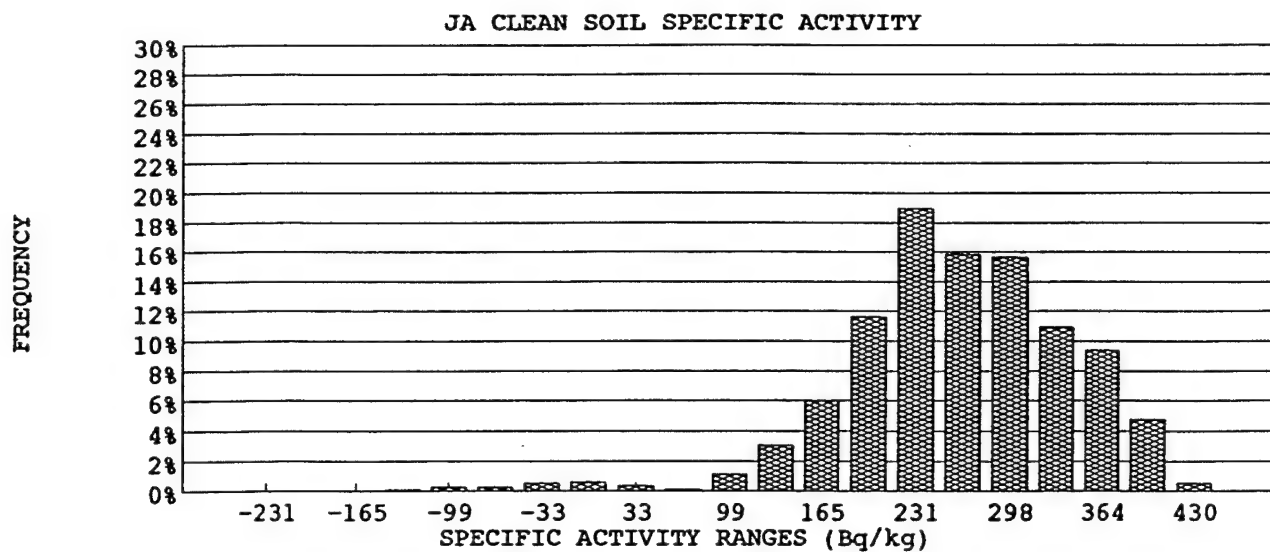
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	8.2 hr	8.2 hr	8.0 hr	8.0 hr	32.5 hr
SORTER START-UP	06:15	06:15	06:15	06:15	
START SOIL PROCESSING	06:32	06:33	06:36	06:36	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.4 hr	0.4 hr	1.3 hr
SORTER SHUT-DOWN	14:30	14:30	14:15	14:15	
END SOIL PROCESSING	14:20	14:22	14:05	14:05	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.1 hr	0.2 hr	0.2 hr	0.6 hr
ACTUAL PROCESS HOURS	7.7 hr	7.7 hr	7.5 hr	7.5 hr	30.4 hr
DOWN-TIME	0.6 hr	0.5 hr	0.5 hr	0.5 hr	2.1 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.0 hr	0.0 hr	0.2 hr
SORTER NONAVAILABLE TIME	2.3 hr	2.3 hr	2.5 hr	2.5 hr	9.5 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					93.4%
PRODUCTIVITY					72.3%

PRODUCTIVITY

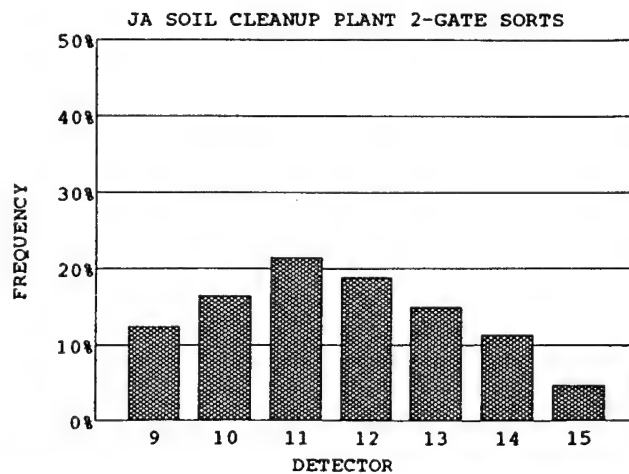
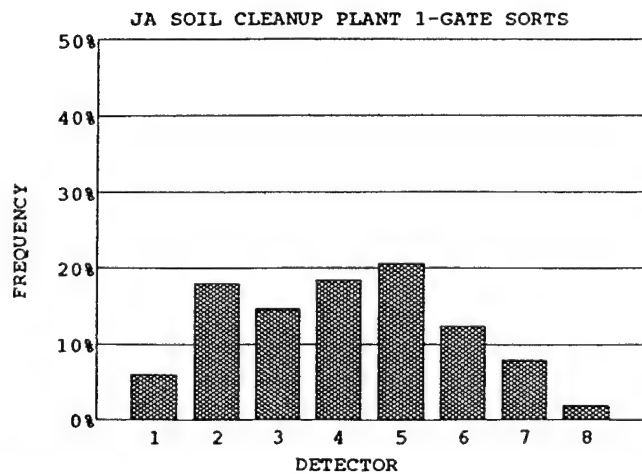
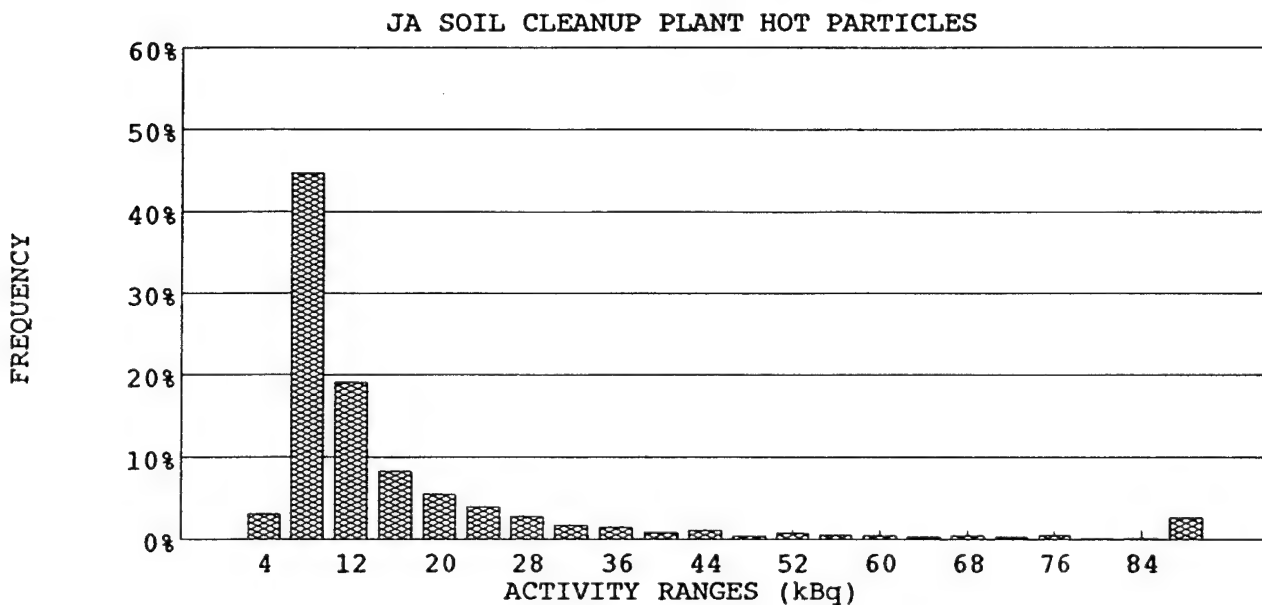
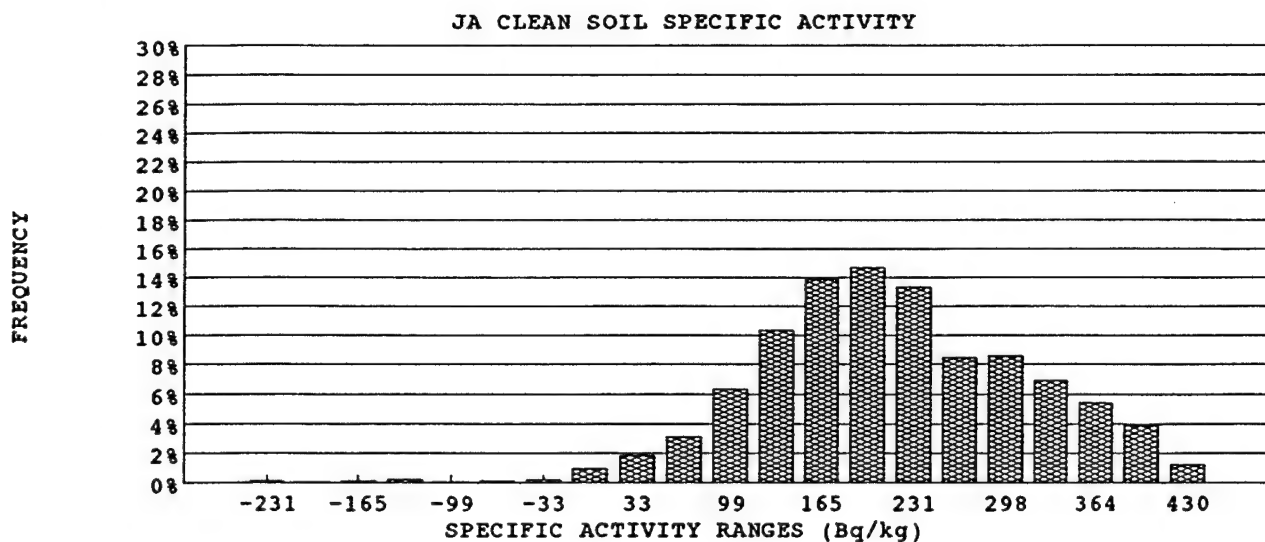
Date	22-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	342	Excused delays for contract (sorter-hrs)	7,212 hr
Current Contract week	57	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	330 MT		
Cumulative Soil Production for Week	1,125 MT	Percent of contract completed	58.4%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,794 MT
Since 6 Sep 93	56,801 MT	Days ahead or behind schedule	5.7 days
Since 6 Aug 93	58,392 MT		
Total Soil production for project	84,679 MT		

MT = metric tons

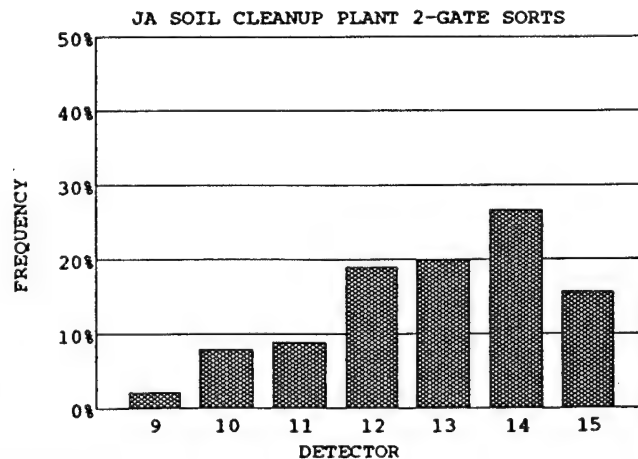
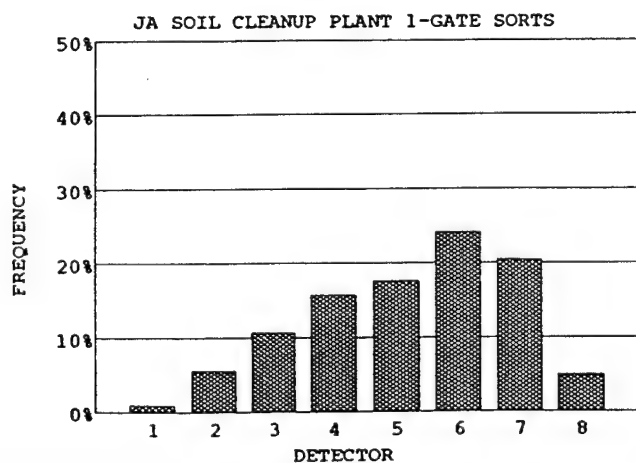
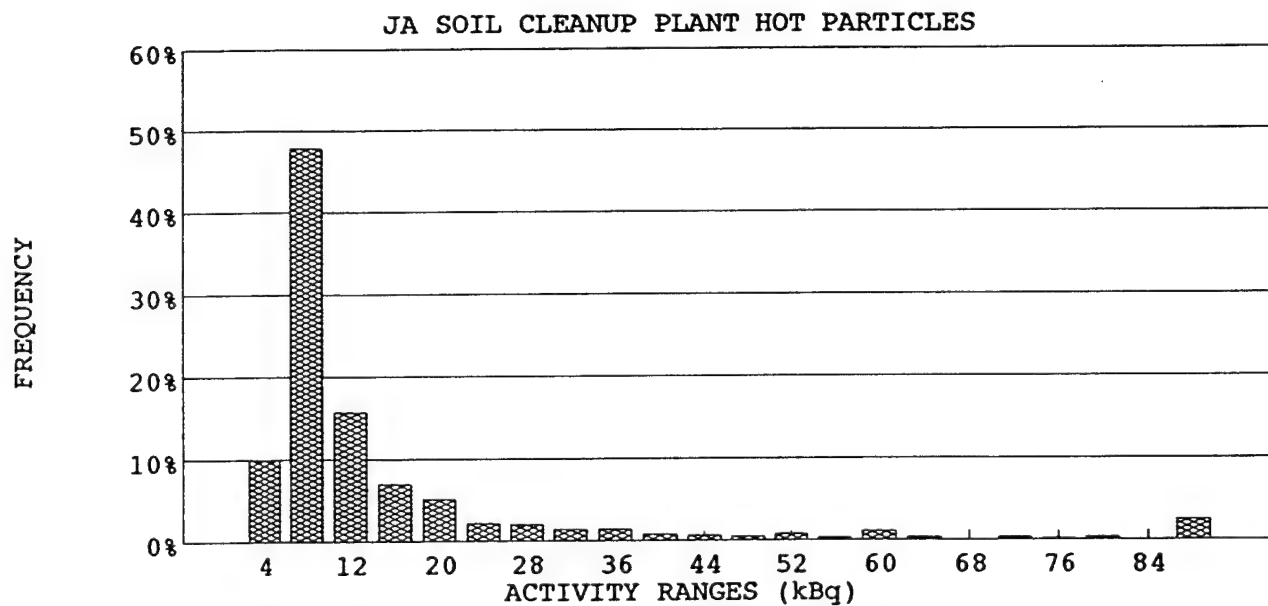
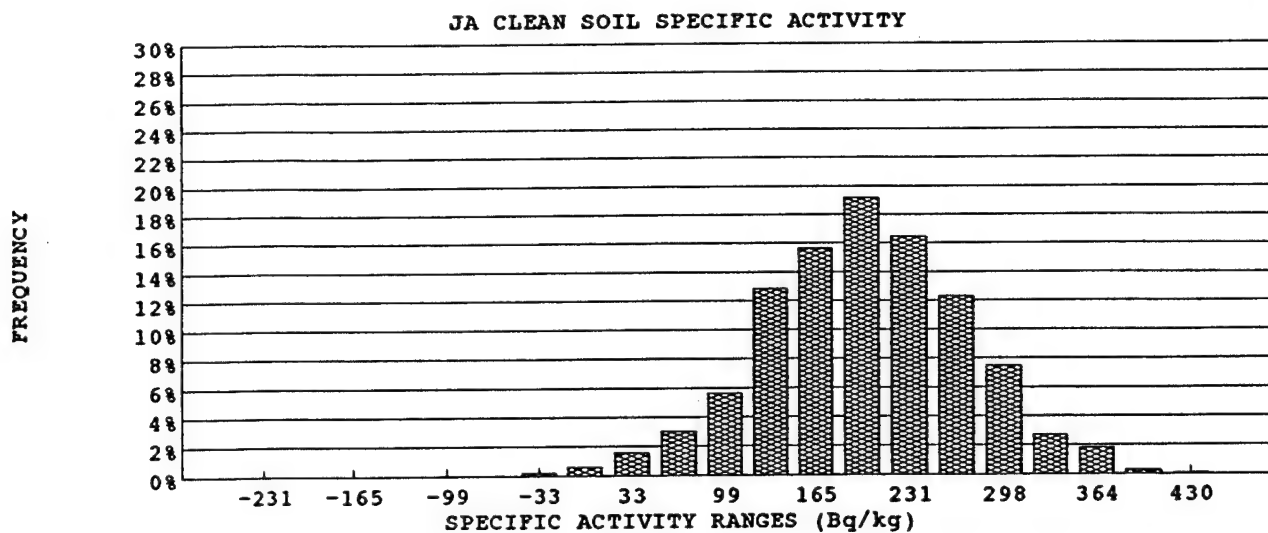
SORTER 1				22-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.32 ± 0.11 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		13.7 tons		69.9 tons		83.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		53.7 kg					
VOLUME IN-GROUND		10.9 yd³		55.4 yd³		66.3 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		83.6%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		48,189 kBq		16,547 kBq		17,526 kBq			
MAXIMUM/SORT		5,498 kBq		2,277 kBq		24 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				1,205 Bq/kg		251 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,382		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				210		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				664		10:59 12:24			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				508		12:09			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				13,820					
2-SEC RECORDS WITH SORTS				1,654					
2-SEC RECORDS WITHOUT SORTS				12,166					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,036					
NONPROCESSING RECORDS (Test, calibration, etc)				8					
2-SEC SORT DETECTORS									
1 DET		1,186	71.70%	5 DET	3	0.18%			
2 DET		378	22.85%	6 DET	0	0.00%			
3 DET		76	4.59%	7 DET	0	0.00%			
4 DET		11	0.67%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				23.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	39	4.6%	-14000	0	-231	0.0%	4	35	2.1%
2	97	11.6%	-12000	0	-198	0.0%	8	671	40.6%
3	136	16.2%	-10000	0	-165	0.0%	12	328	19.8%
4	147	17.5%	-8000	1	-132	0.1%	16	176	10.6%
5	169	20.1%	-6000	3	-99	0.3%	20	100	6.0%
6	118	14.1%	-4000	3	-66	0.3%	24	74	4.5%
7	99	11.8%	-2000	6	-33	0.5%	28	45	2.7%
8	34	4.1%	0	7	0	0.6%	32	25	1.5%
TOTAL	839		2000	4	33	0.3%	36	31	1.9%
			4000	1	66	0.1%	40	24	1.5%
2-GATE SORTS			6000	13	99	1.1%	44	23	1.4%
DET	SORTS	FREQ%	8000	36	132	3.1%	48	10	0.6%
9	75	9.2%	10000	71	165	6.0%	52	8	0.5%
10	117	14.4%	12000	137	198	11.6%	56	9	0.5%
11	149	18.3%	14000	224	231	19.0%	60	7	0.4%
12	151	18.5%	16000	187	264	15.8%	64	11	0.7%
13	162	19.9%	18000	185	298	15.7%	68	4	0.2%
14	84	10.3%	20000	129	331	10.9%	72	1	0.1%
15	77	9.4%	22000	111	364	9.4%	76	3	0.2%
TOTAL	815		24000	56	397	4.7%	80	4	0.2%
			26000	6	430	0.5%	84	4	0.2%
			>28000	0	0	0.0%	>84	61	3.7%
			TOTAL	1,180			TOTAL	1,654	
EVENT TYPES		HPE	1,609	MPE	368	DISE	16,168		



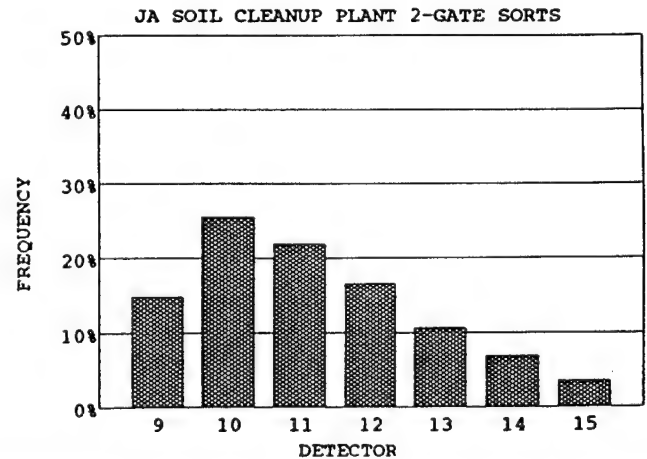
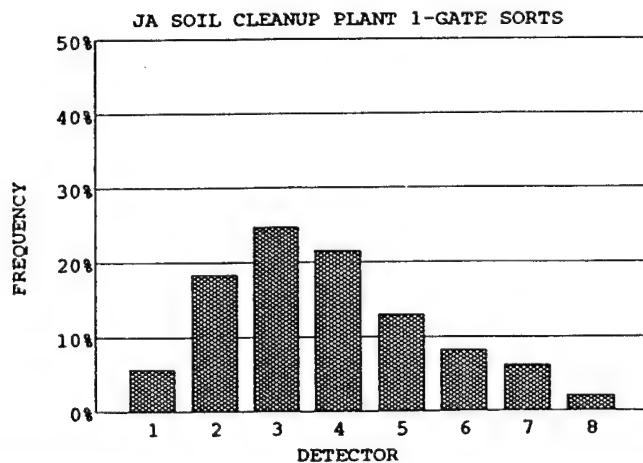
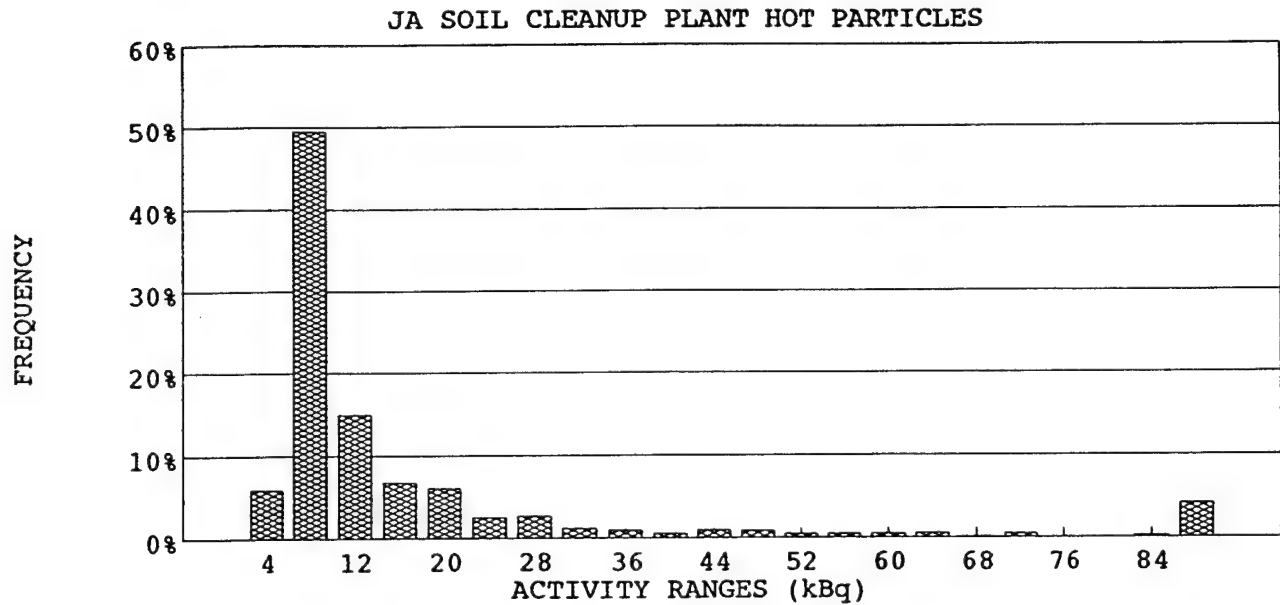
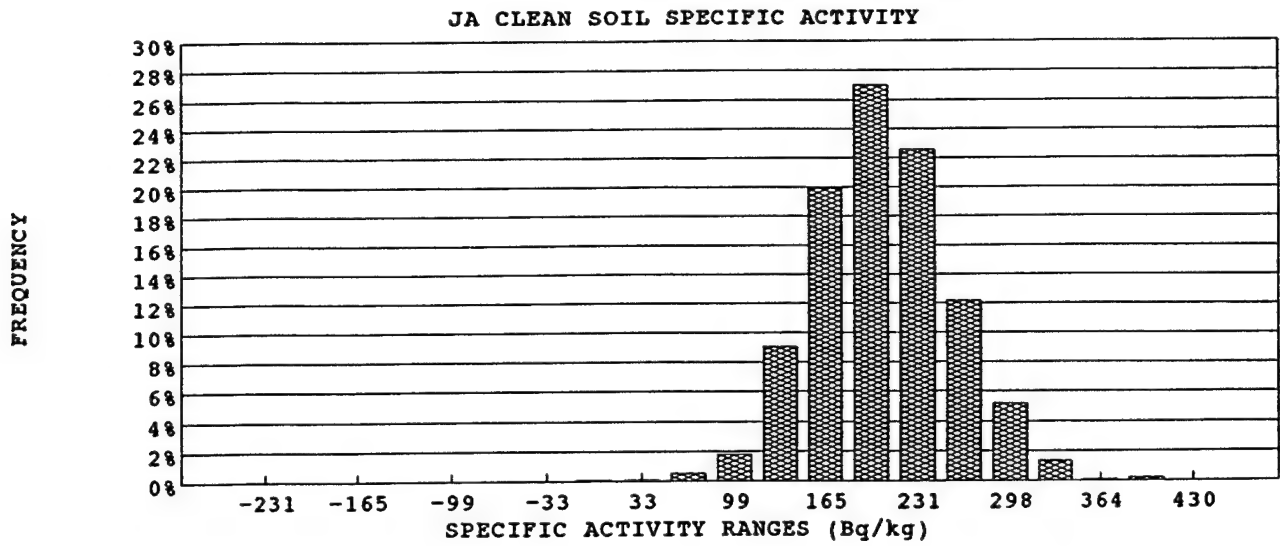
SORTER 2				22-Oct-94					
SORTER SOIL DENSITY			1.30 tons/m³	BACKGROUND		0.77 ±	0.04 c/s		
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		5.8 tons		77.9 tons		83.8 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		52.2 kg					
VOLUME IN-GROUND		4.6 yd³		61.8 yd³		66.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.0%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		33,798 kBq		11,375 kBq		15,856 kBq			
MAXIMUM/SORT		1,319 kBq		667 kBq		26 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-13 kBq			
SPECIFIC ACTIVITY				1,947 Bq/kg		204 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,386		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				76		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				678		08:31 12:24			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				632		10:27			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				13,860					
2-SEC RECORDS WITH SORTS				1,655					
2-SEC RECORDS WITHOUT SORTS				12,205					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,041					
NONPROCESSING RECORDS (Test, calibration, etc)				4					
2-SEC SORT DETECTORS									
1 DET		1,230	74.32%	5 DET	1	0.06%			
2 DET		351	21.21%	6 DET	0	0.00%			
3 DET		64	3.87%	7 DET	0	0.00%			
4 DET		9	0.54%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				22.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	50	6.0%	-14000	2	-231	0.2%	4	52	3.1%
2	150	18.1%	-12000	1	-198	0.1%	8	740	44.7%
3	122	14.7%	-10000	2	-165	0.2%	12	316	19.1%
4	153	18.4%	-8000	3	-132	0.2%	16	137	8.3%
5	171	20.6%	-6000	1	-99	0.1%	20	91	5.5%
6	103	12.4%	-4000	2	-66	0.2%	24	66	4.0%
7	66	7.9%	-2000	3	-33	0.2%	28	47	2.8%
8	16	1.9%	0	13	0	1.0%	32	29	1.8%
TOTAL	831		2000	24	33	1.8%	36	25	1.5%
2-GATE SORTS			4000	41	66	3.1%	40	15	0.9%
DET	SORTS	FREQ%	6000	83	99	6.3%	44	19	1.1%
9	102	12.4%	8000	136	132	10.4%	48	7	0.4%
10	135	16.4%	10000	182	165	13.9%	52	13	0.8%
11	177	21.5%	12000	193	198	14.7%	56	10	0.6%
12	155	18.8%	14000	175	231	13.3%	60	8	0.5%
13	123	14.9%	16000	111	264	8.4%	64	6	0.4%
14	93	11.3%	18000	113	298	8.6%	68	8	0.5%
15	39	4.7%	20000	91	331	6.9%	72	6	0.4%
TOTAL	824		22000	71	364	5.4%	76	10	0.6%
			24000	51	397	3.9%	80	3	0.2%
			26000	16	430	1.2%	84	3	0.2%
			>28000	0	0	0.0%	>84	44	2.7%
			TOTAL	1,314			TOTAL	1,655	
EVENT TYPES		HPE	1,668	MPE	434	DISE	5,783		



SORTER 3				22-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.16 ± 0.27 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.6 tons		80.9 tons		81.6 tons			
MAXIMUM/SORT		7.6 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		52.9 kg					
VOLUME IN-GROUND		0.5 yd³		64.2 yd³		64.6 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		9,599 kBq		HOT 2,814 kBq		CLEAN 14,891 kBq			
MAXIMUM/SORT		361 kBq		154 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-4 kBq			
SPECIFIC ACTIVITY				4,648 Bq/kg		184 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,348		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				980		09:06 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				368		10:31			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				13,480					
2-SEC RECORDS WITH SORTS				646					
2-SEC RECORDS WITHOUT SORTS				12,834					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,994					
NONPROCESSING RECORDS (Test, calibration, etc)				0					
2-SEC SORT DETECTORS									
1 DET		486	75.23%	5 DET	0	0.00%			
2 DET		138	21.36%	6 DET	0	0.00%			
3 DET		21	3.25%	7 DET	0	0.00%			
4 DET		1	0.15%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				55.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	0.9%	-14000	0	-231	0.0%	4	64	9.9%
2	18	5.6%	-12000	0	-198	0.0%	8	309	47.8%
3	34	10.7%	-10000	0	-165	0.0%	12	101	15.6%
4	50	15.7%	-8000	0	-132	0.0%	16	45	7.0%
5	56	17.6%	-6000	0	-99	0.0%	20	33	5.1%
6	77	24.1%	-4000	0	-66	0.0%	24	14	2.2%
7	65	20.4%	-2000	3	-33	0.2%	28	13	2.0%
8	16	5.0%	0	8	0	0.6%	32	9	1.4%
TOTAL	319		2000	21	33	1.6%	36	9	1.4%
			4000	41	66	3.0%	40	5	0.8%
2-GATE SORTS			6000	76	99	5.6%	44	4	0.6%
DET	SORTS	FREQ%	8000	173	132	12.8%	48	3	0.5%
9	7	2.1%	10000	211	165	15.7%	52	5	0.8%
10	26	8.0%	12000	259	198	19.2%	56	2	0.3%
11	29	8.9%	14000	222	231	16.5%	60	7	1.1%
12	62	19.0%	16000	166	264	12.3%	64	2	0.3%
13	65	19.9%	18000	101	298	7.5%	68	0	0.0%
14	87	26.6%	20000	37	331	2.7%	72	2	0.3%
15	51	15.6%	22000	25	364	1.9%	76	1	0.2%
TOTAL	327		24000	4	397	0.3%	80	2	0.3%
			26000	1	430	0.1%	84	0	0.0%
			>28000	0	0	0.0%	>84	16	2.5%
			TOTAL	1,348			TOTAL	646	
EVENT TYPES		HPE	682	MPE	110	DISE	5		



SORTER 4				22-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.63 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.7 tons		80.8 tons		81.5 tons	
MAXIMUM/SORT				6.8 kg		60.5 kg			
MINIMUM/SORT				0.8 kg		53.7 kg			
VOLUME IN-GROUND				0.6 yd ³		64.0 yd ³		64.6 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.1%					
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
TOTAL				15,381 kBq		3,704 kBq		15,471 kBq	
MAXIMUM/SORT				582 kBq		285 kBq		23 kBq	
MINIMUM/SORT				3 kBq		0 Bq		1 kBq	
SPECIFIC ACTIVITY						5,314 Bq/kg		191 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,347		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)						0		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)						943		08:46 None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						404		08:59	
UNEXPLAINED RECORDS						0		11:44	
0<AD<1kBq & MD>0						3			
AD=0 & MD>0						0			
AD<0 & MD >0						0			
2-SEC COUNT PERIODS						13,470			
2-SEC RECORDS WITH SORTS						828			
2-SEC RECORDS WITHOUT SORTS						12,642			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						2,175			
NONPROCESSING RECORDS (Test, calibration, etc)						1			
2-SEC SORT DETECTORS									
1 DET		623	75.24%	5 DET		2	0.24%		
2 DET		171	20.65%	6 DET		0	0.00%		
3 DET		28	3.38%	7 DET		0	0.00%		
4 DET		4	0.48%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS						43.2 sec			
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	25	5.7%	-14000	0	-231	0.0%	4	49	5.9%
2	80	18.3%	-12000	0	-198	0.0%	8	410	49.5%
3	108	24.8%	-10000	0	-165	0.0%	12	124	15.0%
4	94	21.6%	-8000	0	-132	0.0%	16	56	6.8%
5	57	13.1%	-6000	0	-99	0.0%	20	50	6.0%
6	36	8.3%	-4000	0	-66	0.0%	24	21	2.5%
7	27	6.2%	-2000	0	-33	0.0%	28	22	2.7%
8	9	2.1%	0	1	0	0.1%	32	10	1.2%
TOTAL	436		2000	1	33	0.1%	36	8	1.0%
			4000	7	66	0.5%	40	5	0.6%
2-GATE SORTS			6000	24	99	1.8%	44	8	1.0%
DET	SORTS	FREQ%	8000	122	132	9.1%	48	7	0.8%
9	58	14.8%	10000	269	165	20.0%	52	4	0.5%
10	100	25.5%	12000	364	198	27.0%	56	4	0.5%
11	86	21.9%	14000	304	231	22.6%	60	4	0.5%
12	65	16.6%	16000	164	264	12.2%	64	5	0.6%
13	42	10.7%	18000	70	298	5.2%	68	1	0.1%
14	27	6.9%	20000	18	331	1.3%	72	4	0.5%
15	14	3.6%	22000	1	364	0.1%	76	0	0.0%
TOTAL	392		24000	3	397	0.2%	80	0	0.0%
			26000	0	430	0.0%	84	2	0.2%
			>28000	0	0	0.0%	>84	34	4.1%
			TOTAL	1,348			TOTAL	828	
EVENT TYPES		HPE	829	MPE	89	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

24-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

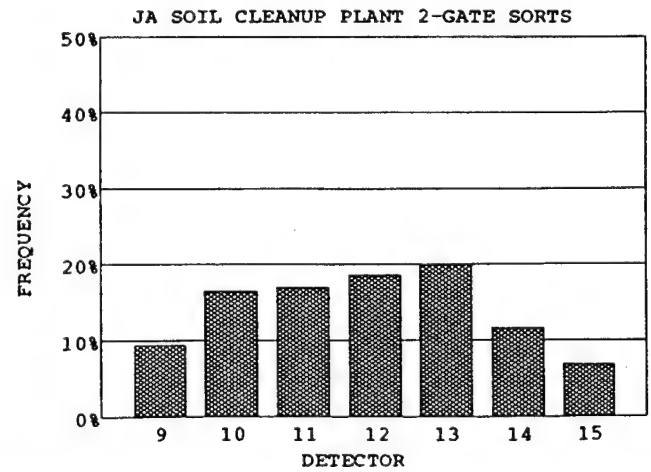
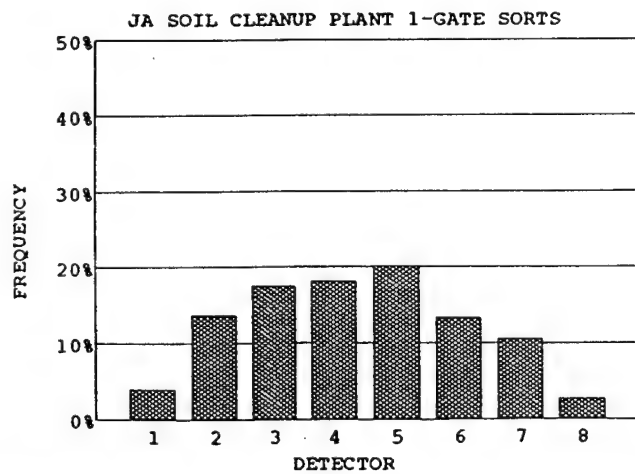
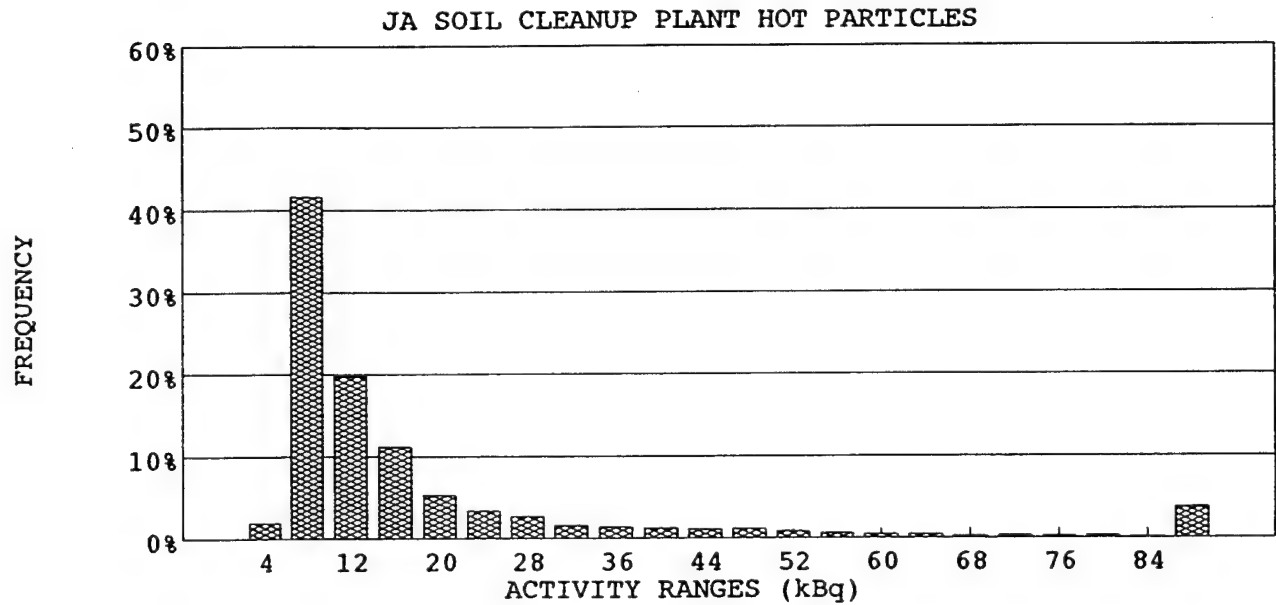
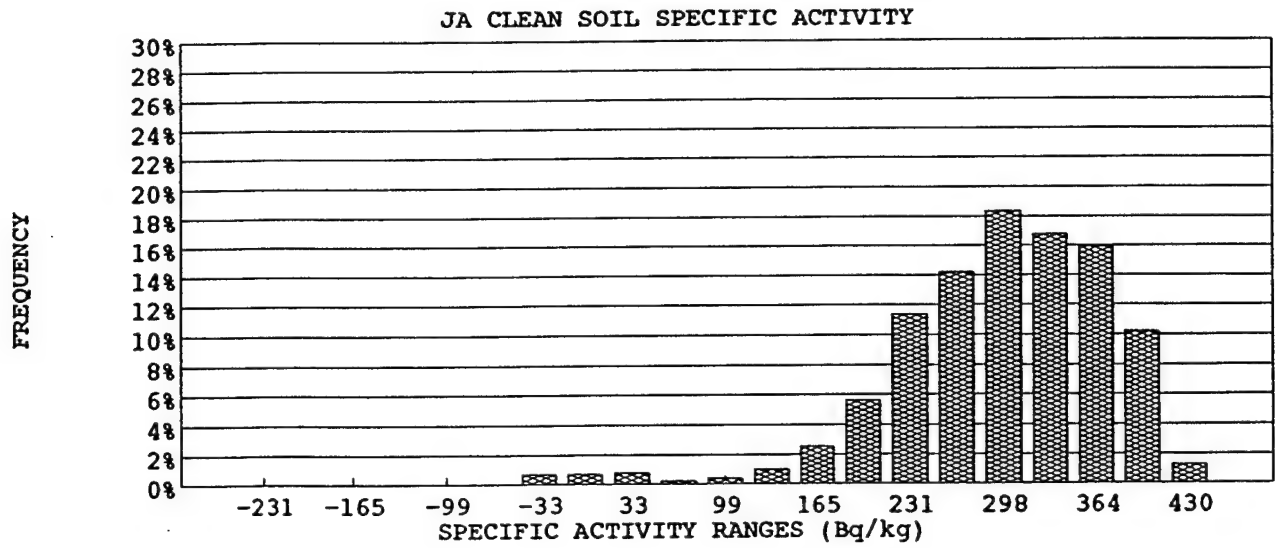
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.6 hr	9.6 hr	9.8 hr	9.8 hr	38.7 hr
SORTER START-UP	06:45	06:45	06:30	06:30	
START SOIL PROCESSING	06:59	06:59	06:47	06:47	
TIME REQUIRED TO START-UP	0.2 hr	0.2 hr	0.3 hr	0.3 hr	1.0 hr
SORTER SHUT-DOWN	16:20	16:20	16:15	16:15	
END SOIL PROCESSING	16:18	16:19	13:30	13:25	
TIME REQUIRED TO SHUT DOWN	0.0 hr	0.0 hr	2.7 hr	2.8 hr	5.6 hr
ACTUAL PROCESS HOURS	9.3 hr	9.3 hr	6.4 hr	6.6 hr	31.7 hr
DOWN-TIME	0.3 hr	0.2 hr	3.4 hr	3.1 hr	7.0 hr
SYSTEM PAUSE	0.0 hr	0.0 hr	0.4 hr	0.3 hr	0.7 hr
SORTER NONAVAILABLE TIME	0.9 hr	0.9 hr	0.7 hr	0.7 hr	3.3 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					81.9%
PRODUCTIVITY					75.4%

PRODUCTIVITY

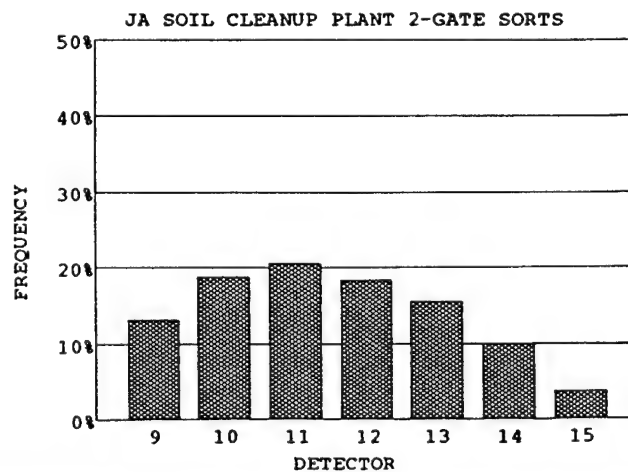
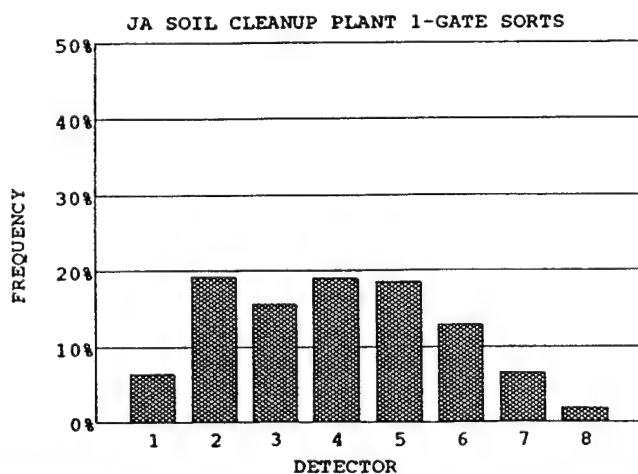
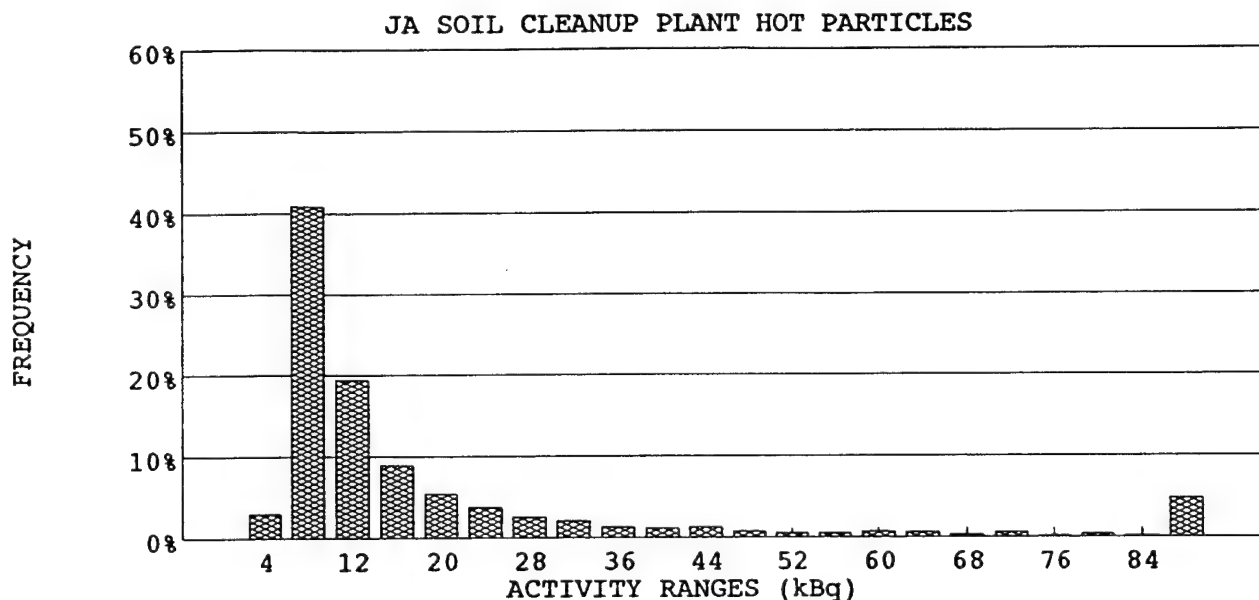
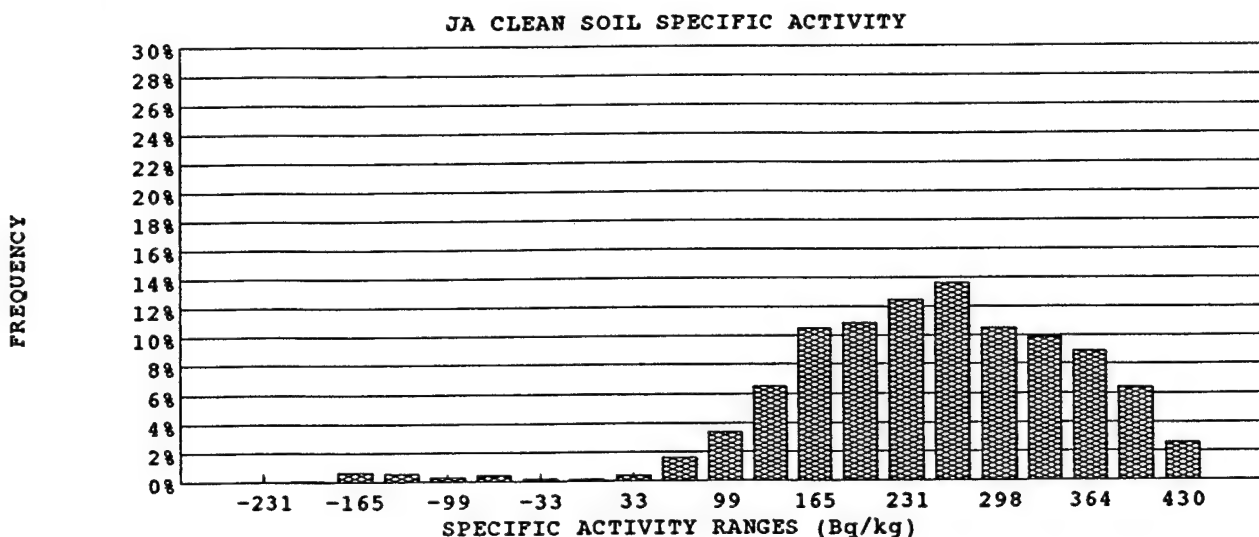
Date	24-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	343	Excused delays for contract (sorter-hrs)	7,212 hr
Current Contract week	58	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	345 MT		
Cumulative Soil Production for Week	345 MT	Percent of contract completed	58.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,823 MT
Since 6 Sep 93	57,146 MT	Days ahead or behind schedule	5.8 days
Since 6 Aug 93	58,737 MT		
Total Soil production for project	85,024 MT		

MT = metric tons

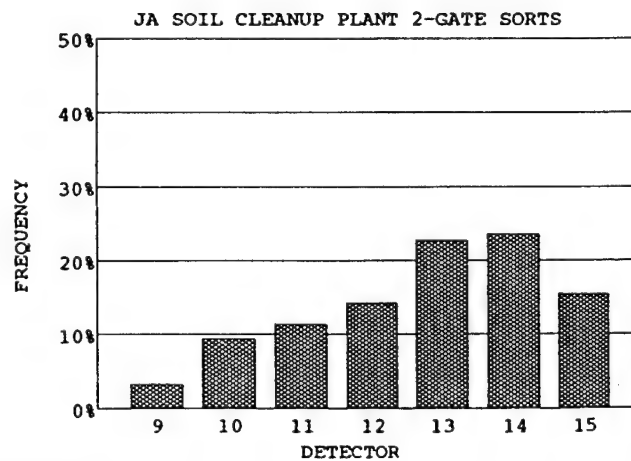
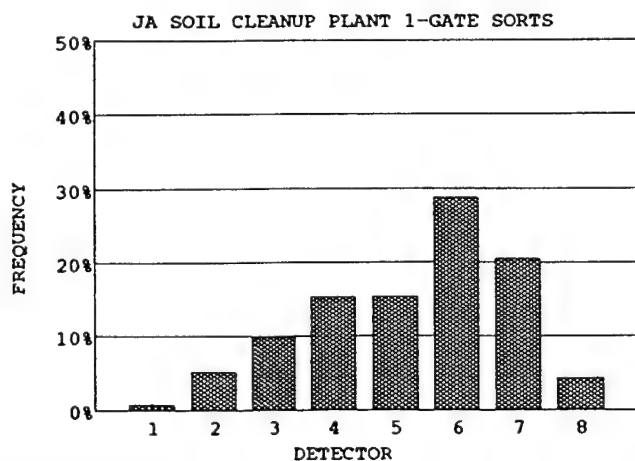
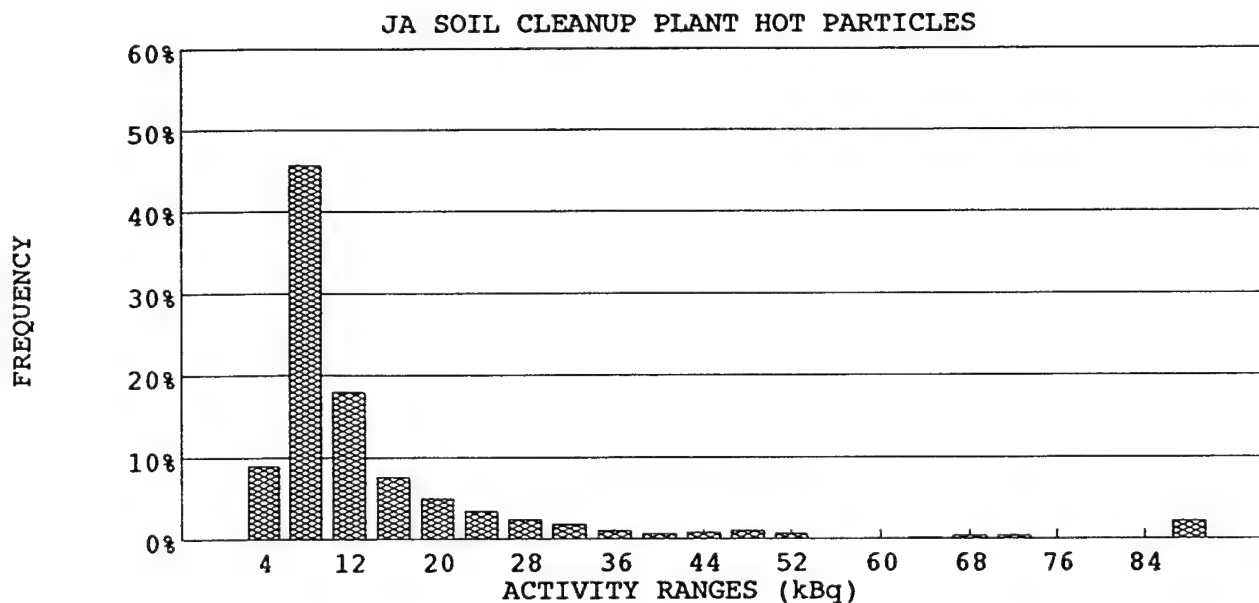
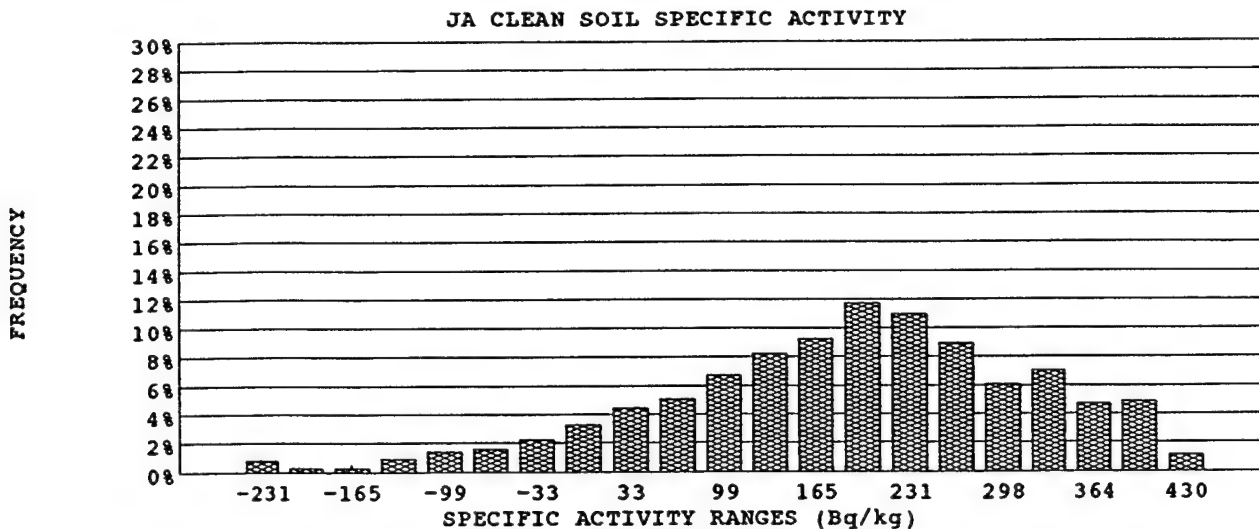
SORTER 1				24-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.38 ± 0.06 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		24.7 tons		76.9 tons		101.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		52.2 kg					
VOLUME IN-GROUND		19.6 yd³		60.9 yd³		80.5 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		75.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		86,639 kBq		30,095 kBq		21,931 kBq			
MAXIMUM/SORT		10,647 kBq		5,635 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-3 kBq			
SPECIFIC ACTIVITY				1,219 Bq/kg		285 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,678		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				379		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				536		08:15 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				763		14:53			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,780					
2-SEC RECORDS WITH SORTS				3,018					
2-SEC RECORDS WITHOUT SORTS				13,762					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,696					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		2,145	71.07%	5 DET		8	0.27%		
2 DET		683	22.63%	6 DET		0	0.00%		
3 DET		154	5.10%	7 DET		0	0.00%		
4 DET		28	0.93%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				15.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
			(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
DET	SORTS	FREQ%							
1	59	3.9%	-14000	0	-231	0.0%	4	58	1.9%
2	207	13.7%	-12000	0	-198	0.0%	8	1,256	41.6%
3	263	17.5%	-10000	0	-165	0.0%	12	596	19.7%
4	272	18.0%	-8000	0	-132	0.0%	16	337	11.2%
5	303	20.1%	-6000	0	-99	0.0%	20	161	5.3%
6	202	13.4%	-4000	0	-66	0.0%	24	102	3.4%
7	160	10.6%	-2000	9	-33	0.7%	28	82	2.7%
8	41	2.7%	0	9	0	0.7%	32	50	1.7%
TOTAL	1,507		2000	10	33	0.8%	36	42	1.4%
			4000	3	66	0.2%	40	38	1.3%
2-GATE SORTS			6000	5	99	0.4%	44	34	1.1%
DET	SORTS	FREQ%	8000	13	132	1.0%	48	35	1.2%
9	142	9.4%	10000	33	165	2.5%	52	25	0.8%
10	249	16.5%	12000	73	198	5.6%	56	19	0.6%
11	257	17.0%	14000	148	231	11.4%	60	15	0.5%
12	281	18.6%	16000	185	264	14.2%	64	15	0.5%
13	303	20.1%	18000	239	298	18.4%	68	7	0.2%
14	175	11.6%	20000	218	331	16.8%	72	10	0.3%
15	104	6.9%	22000	207	364	15.9%	76	8	0.3%
TOTAL	1,511		24000	133	397	10.2%	80	10	0.3%
			26000	16	430	1.2%	84	3	0.1%
			>28000	0	0	0.0%	>84	115	3.8%
			TOTAL	1,301			TOTAL	3,018	
EVENT TYPES		HPE	2,942	MPE	744	DISE	28,965		



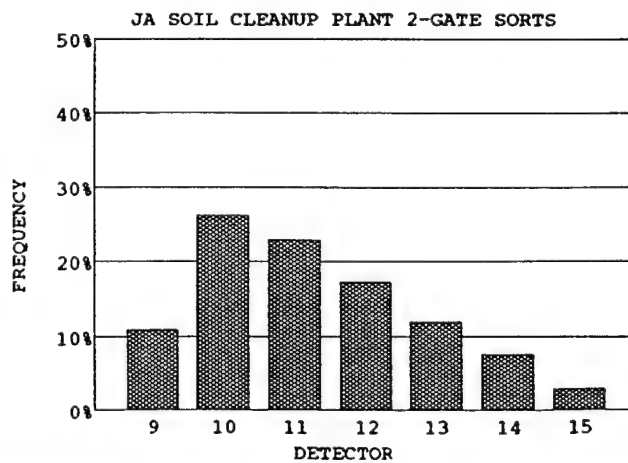
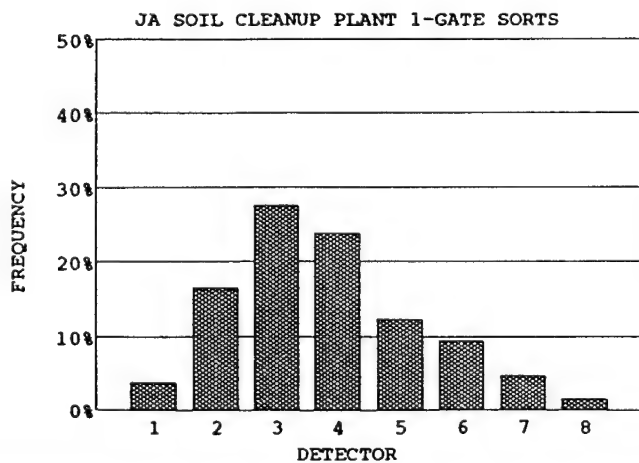
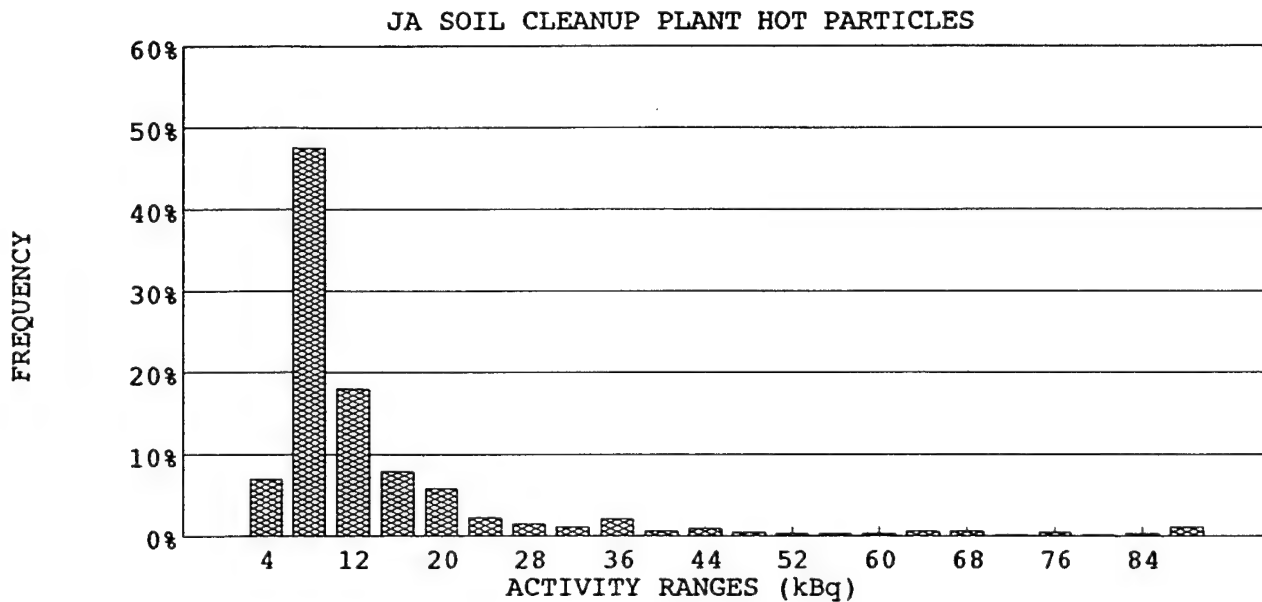
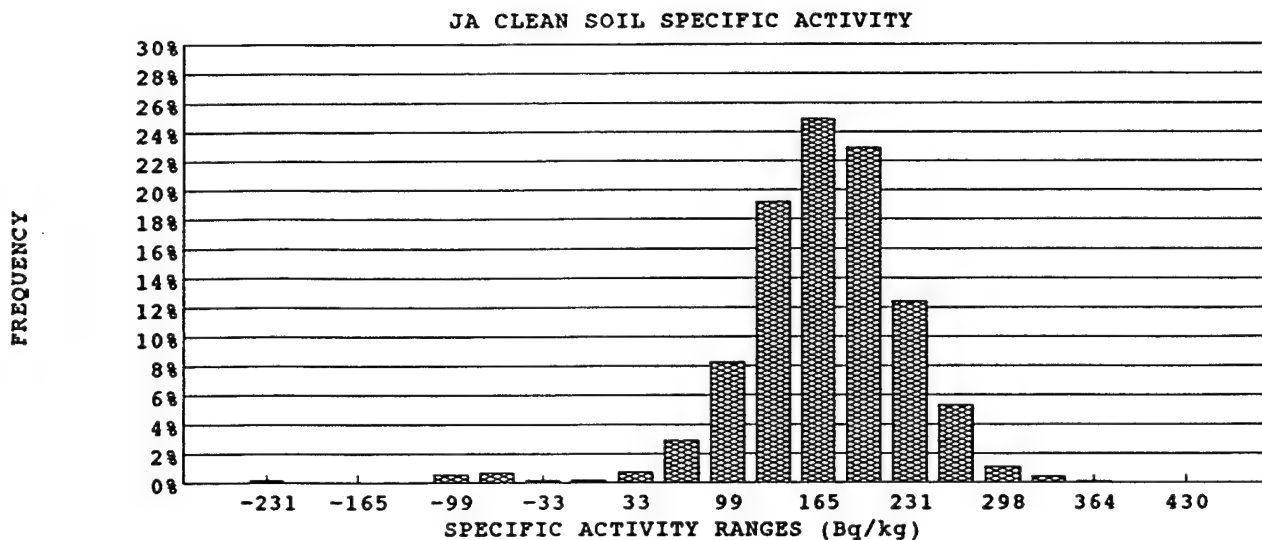
SORTER 2				24-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.79 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		10.8 tons		90.7 tons		101.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		50.7 kg					
VOLUME IN-GROUND		8.6 yd³		71.9 yd³		80.5 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		89.3%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		91,854 kBq		27,091 kBq		21,500 kBq			
MAXIMUM/SORT		4,248 kBq		1,999 kBq		26 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-12 kBq			
SPECIFIC ACTIVITY				2,501 Bq/kg		237 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,681		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				143		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				572		07:15 None			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				966		11:28			
UNEXPLAINED RECORDS				0		11:29			
0<AD<1kBq & MD>0				4		12:10			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,810					
2-SEC RECORDS WITH SORTS				3,065					
2-SEC RECORDS WITHOUT SORTS				13,745					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,746					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		2,159	70.44%	5 DET	19	0.62%			
2 DET		710	23.16%	6 DET	0	0.00%			
3 DET		143	4.67%	7 DET	1	0.03%			
4 DET		34	1.11%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				15.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	99	6.5%	-14000	0	-231	0.0%	4	94	3.1%
2	294	19.2%	-12000	1	-198	0.1%	8	1,252	40.8%
3	239	15.6%	-10000	10	-165	0.6%	12	595	19.4%
4	292	19.0%	-8000	9	-132	0.6%	16	273	8.9%
5	284	18.5%	-6000	5	-99	0.3%	20	166	5.4%
6	197	12.9%	-4000	7	-66	0.5%	24	117	3.8%
7	100	6.5%	-2000	3	-33	0.2%	28	80	2.6%
8	28	1.8%	0	2	0	0.1%	32	65	2.1%
TOTAL	1,533		2000	6	33	0.4%	36	42	1.4%
			4000	25	66	1.6%	40	37	1.2%
2-GATE SORTS			6000	52	99	3.4%	44	40	1.3%
DET	SORTS	FREQ%	8000	100	132	6.5%	48	24	0.8%
9	202	13.2%	10000	162	165	10.5%	52	18	0.6%
10	287	18.7%	12000	167	198	10.8%	56	18	0.6%
11	316	20.6%	14000	192	231	12.5%	60	22	0.7%
12	281	18.3%	16000	209	264	13.6%	64	20	0.7%
13	237	15.5%	18000	162	298	10.5%	68	11	0.4%
14	153	10.0%	20000	152	331	9.9%	72	19	0.6%
15	56	3.7%	22000	137	364	8.9%	76	6	0.2%
TOTAL	1,532		24000	99	397	6.4%	80	13	0.4%
			26000	40	430	2.6%	84	6	0.2%
			>28000	0	0	0.0%	>84	147	4.8%
			TOTAL	1,540			TOTAL	3,065	
EVENT TYPES		HPE	3,004	MPE	809	DISE	10,743		



SORTER 3				24-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.15 ± 0.80 c/s			
SOIL				CONTAMINATED		CLEAN			
MASS TOTAL		4.3 tons		65.0 tons		TOTAL			
MAXIMUM/SORT		63.0 kg		60.5 kg		69.3 tons			
MINIMUM/SORT		0.8 kg		53.7 kg					
VOLUME IN-GROUND		3.4 yd ³		51.5 yd ³		55.0 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		93.7%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		15,627 kBq		7,479 kBq		11,034 kBq			
MAXIMUM/SORT		3,374 kBq		3,221 kBq		25 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-26 kBq			
SPECIFIC ACTIVITY				1,719 Bq/kg		170 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,146		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				64		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				818		07:49 07:47			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				264		07:50 07:49			
UNEXPLAINED RECORDS				0		10:08 07:49			
0<AD<1kBq & MD>0				2		10:58 07:50			
AD=0 & MD>0				2		12:42 10:40			
AD<0 & MD >0				0		10:56			
2-SEC COUNT PERIODS				11,460					
2-SEC RECORDS WITH SORTS				501					
2-SEC RECORDS WITHOUT SORTS				10,959					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,647					
NONPROCESSING RECORDS (Test, calibration, etc)				0					
2-SEC SORT DETECTORS									
1 DET		375	74.85%	5 DET		5	1.00%		
2 DET		101	20.16%	6 DET		0	0.00%		
3 DET		17	3.39%	7 DET		1	0.20%		
4 DET		3	0.60%	8 DET		1	0.20%		
AVERAGE TIME BETWEEN 2-SEC SORTS				61.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	2	0.8%	-14000	9	-231	0.8%	4	45	9.0%
2	13	5.1%	-12000	3	-198	0.3%	8	229	45.7%
3	25	9.8%	-10000	3	-165	0.3%	12	90	18.0%
4	39	15.4%	-8000	10	-132	0.9%	16	38	7.6%
5	39	15.4%	-6000	15	-99	1.4%	20	25	5.0%
6	73	28.7%	-4000	17	-66	1.6%	24	17	3.4%
7	52	20.5%	-2000	24	-33	2.2%	28	12	2.4%
8	11	4.3%	0	35	0	3.2%	32	9	1.8%
TOTAL	254		2000	48	33	4.4%	36	5	1.0%
			4000	55	66	5.1%	40	3	0.6%
			6000	73	99	6.7%	44	4	0.8%
2-GATE SORTS			8000	89	132	8.2%	48	5	1.0%
DET	SORTS	FREQ%	10000	100	165	9.2%	52	3	0.6%
9	8	3.3%	12000	127	198	11.7%	56	0	0.0%
10	23	9.3%	14000	119	231	11.0%	60	0	0.0%
11	28	11.4%	16000	97	264	9.0%	64	1	0.2%
12	35	14.2%	18000	66	298	6.1%	68	2	0.4%
13	56	22.8%	20000	76	331	7.0%	72	2	0.4%
14	58	23.6%	22000	51	364	4.7%	76	0	0.0%
15	38	15.4%	24000	53	397	4.9%	80	0	0.0%
TOTAL	246		26000	12	430	1.1%	84	0	0.0%
			>28000	0	0	0.0%	>84	11	2.2%
			TOTAL	1,082			TOTAL	501	
EVENT TYPES		HPE	500	MPE	87	DISE	5,160		



SORTER 4				24-Oct-94						
SORTER SOIL DENSITY			1.30 tons/m³		BACKGROUND		0.62 ± 0.02 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL				0.5 tons		71.8 tons		72.3 tons		
MAXIMUM/SORT				4.5 kg		60.5 kg				
MINIMUM/SORT				0.8 kg		56.0 kg				
VOLUME IN-GROUND				0.4 yd³		56.9 yd³		57.3 yd³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.2%						
ACTIVITY				PARTICLE		DISPERSED + PARTICLE				
						HOT		CLEAN		
TOTAL				8,256 kBq		2,140 kBq		11,093 kBq		
MAXIMUM/SORT				230 kBq		117 kBq		21 kBq		
MINIMUM/SORT				3 kBq		0 Bq		-7 kBq		
SPECIFIC ACTIVITY						3,929 Bq/kg		155 Bq/kg		
SORTS										
20-SEC PROCESS PERIODS						1,195		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)						0		TIME TIME		
NONE (AD=0 & MD=0 & MND>0)						865		07:04 13:26		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)						330		09:06		
UNEXPLAINED RECORDS						0		09:22		
0<AD<1kBq & MD>0						4		12:01		
AD=0 & MD>0						0				
AD<0 & MD >0						0				
2-SEC COUNT PERIODS						11,950				
2-SEC RECORDS WITH SORTS						616				
2-SEC RECORDS WITHOUT SORTS						11,334				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						1,811				
NONPROCESSING RECORDS (Test, calibration, etc)						5				
2-SEC SORT DETECTORS										
1 DET		471	76.46%	5 DET		0	0.00%			
2 DET		125	20.29%	6 DET		0	0.00%			
3 DET		18	2.92%	7 DET		0	0.00%			
4 DET		2	0.32%	8 DET		0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS						50.7 sec				
FREQUENCY DISTRIBUTIONS										
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	12	3.8%	-14000	2	-231	0.2%	4	43	7.0%	
2	52	16.5%	-12000	0	-198	0.0%	8	293	47.6%	
3	87	27.6%	-10000	0	-165	0.0%	12	111	18.0%	
4	75	23.8%	-8000	0	-132	0.0%	16	49	8.0%	
5	39	12.4%	-6000	7	-99	0.6%	20	36	5.8%	
6	30	9.5%	-4000	8	-66	0.7%	24	14	2.3%	
7	15	4.8%	-2000	2	-33	0.2%	28	9	1.5%	
8	5	1.6%	0	2	0	0.2%	32	7	1.1%	
TOTAL	315		2000	9	33	0.8%	36	13	2.1%	
			4000	35	66	2.9%	40	4	0.6%	
			6000	99	99	8.3%	44	6	1.0%	
2-GATE SORTS			8000	230	132	19.2%	48	3	0.5%	
DET	SORTS	FREQ%	10000	299	165	24.9%	52	2	0.3%	
9	33	11.0%	12000	275	198	22.9%	56	2	0.3%	
10	79	26.2%	14000	149	231	12.4%	60	2	0.3%	
11	69	22.9%	16000	64	264	5.3%	64	4	0.6%	
12	52	17.3%	18000	13	298	1.1%	68	4	0.6%	
13	36	12.0%	20000	5	331	0.4%	72	1	0.2%	
14	23	7.6%	22000	1	364	0.1%	76	3	0.5%	
15	9	3.0%	24000	0	397	0.0%	80	1	0.2%	
TOTAL	301		26000	0	430	0.0%	84	2	0.3%	
			>28000	0	0	0.0%	>84	7	1.1%	
			TOTAL	1,200			TOTAL	616		
EVENT TYPES		HPE	632	MPE	85	DISE	0			



WORK HISTORY - JA SOIL CLEANUP PLANT

25-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

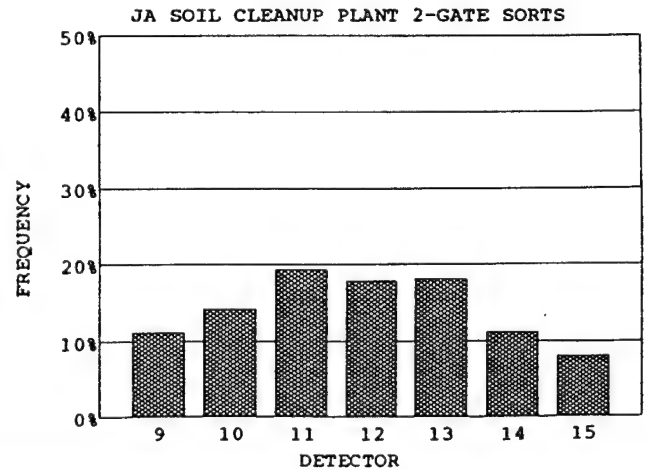
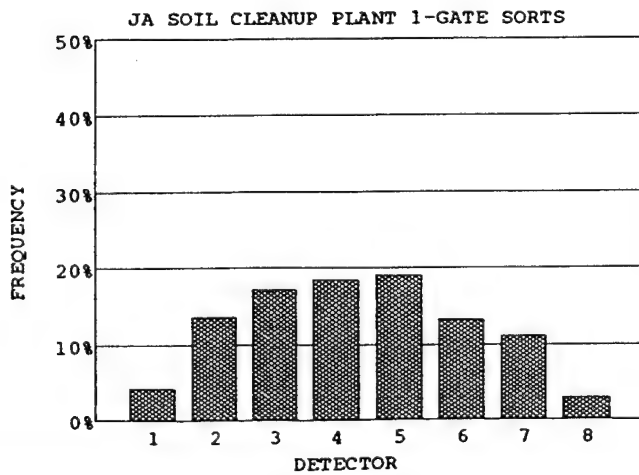
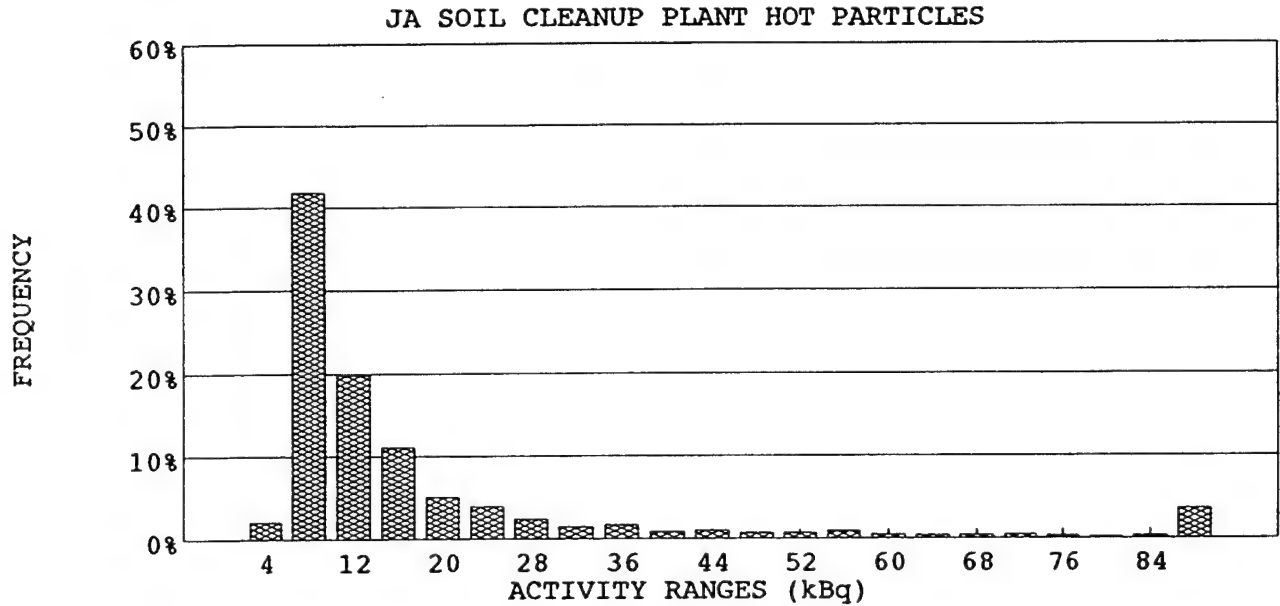
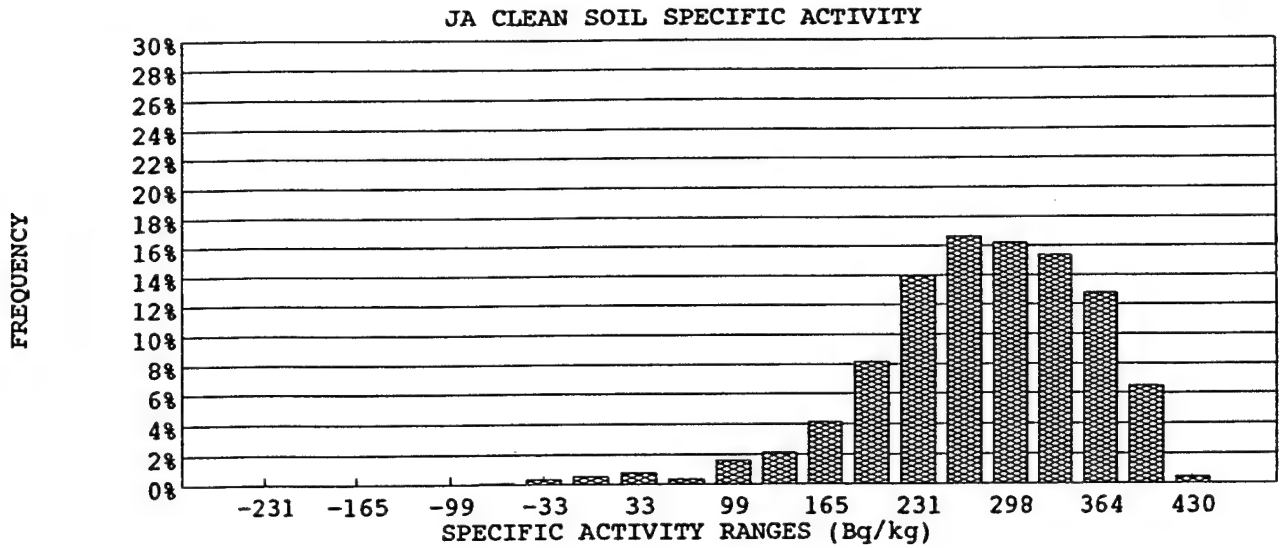
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.7 hr	9.7 hr	9.5 hr	9.5 hr	38.3 hr
SORTER START-UP	06:35	06:35	06:40	06:40	
START SOIL PROCESSING	06:43	06:43	06:47	06:47	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.1 hr	0.1 hr	0.5 hr
SORTER SHUT-DOWN	16:15	16:15	16:10	16:10	
END SOIL PROCESSING	16:09	16:12	16:01	16:01	
TIME REQUIRED TO SHUT DOWN	0.1 hr	0.0 hr	0.1 hr	0.1 hr	0.4 hr
ACTUAL PROCESS HOURS	9.3 hr	9.4 hr	8.9 hr	9.0 hr	36.6 hr
DOWN-TIME	0.4 hr	0.3 hr	0.6 hr	0.5 hr	1.7 hr
SYSTEM PAUSE	0.1 hr	0.1 hr	0.3 hr	0.2 hr	0.6 hr
SORTER NONAVAILABLE TIME	0.8 hr	0.8 hr	1.0 hr	1.0 hr	3.7 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					95.6%
PRODUCTIVITY					87.2%

PRODUCTIVITY

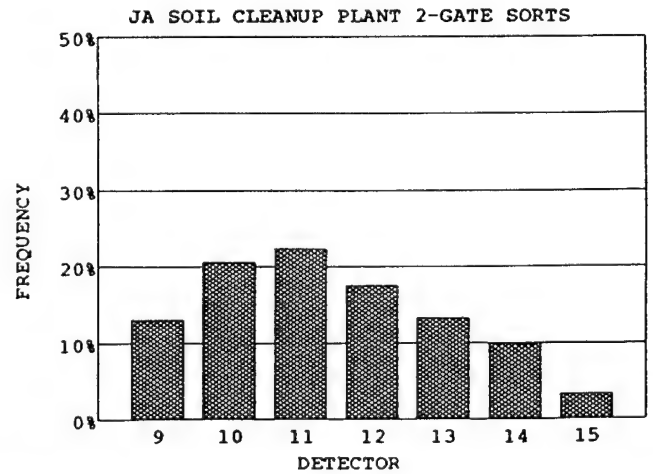
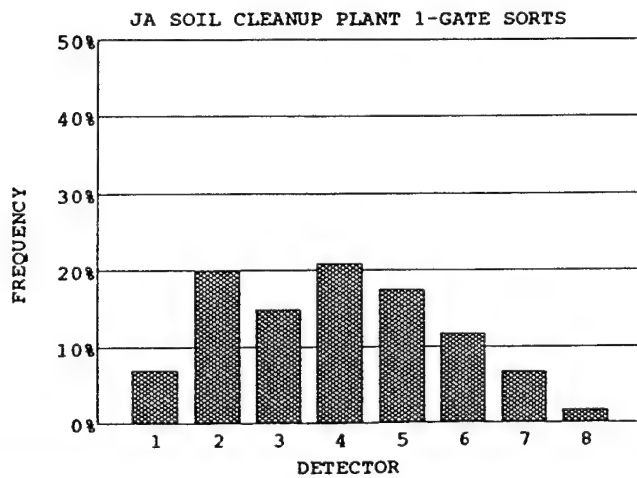
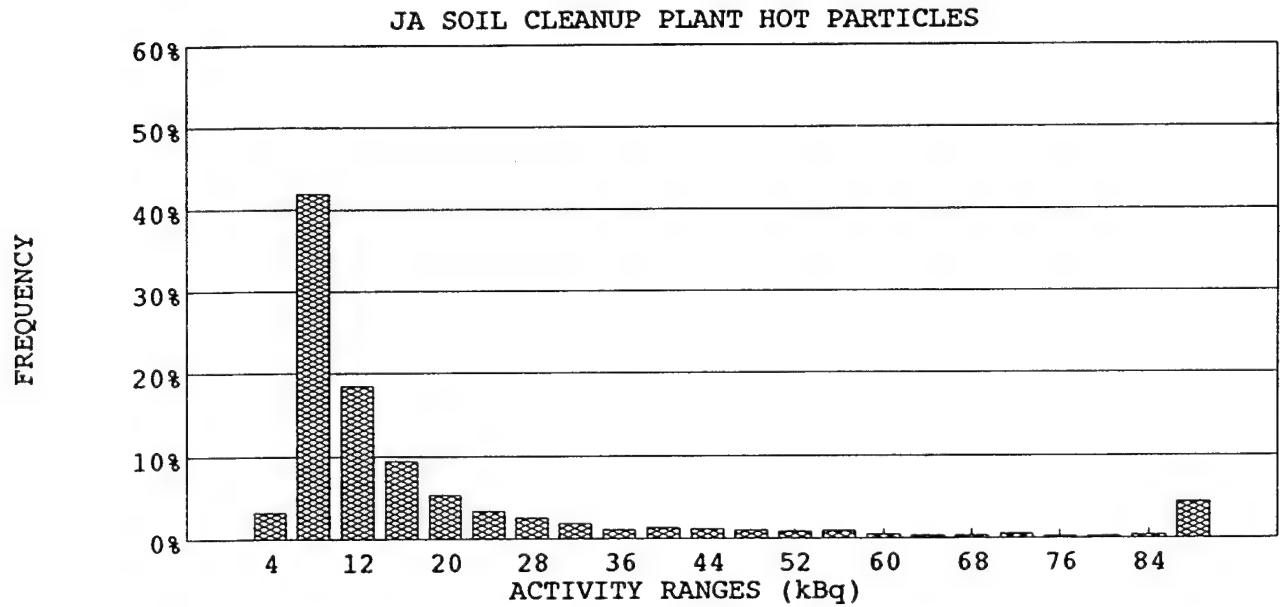
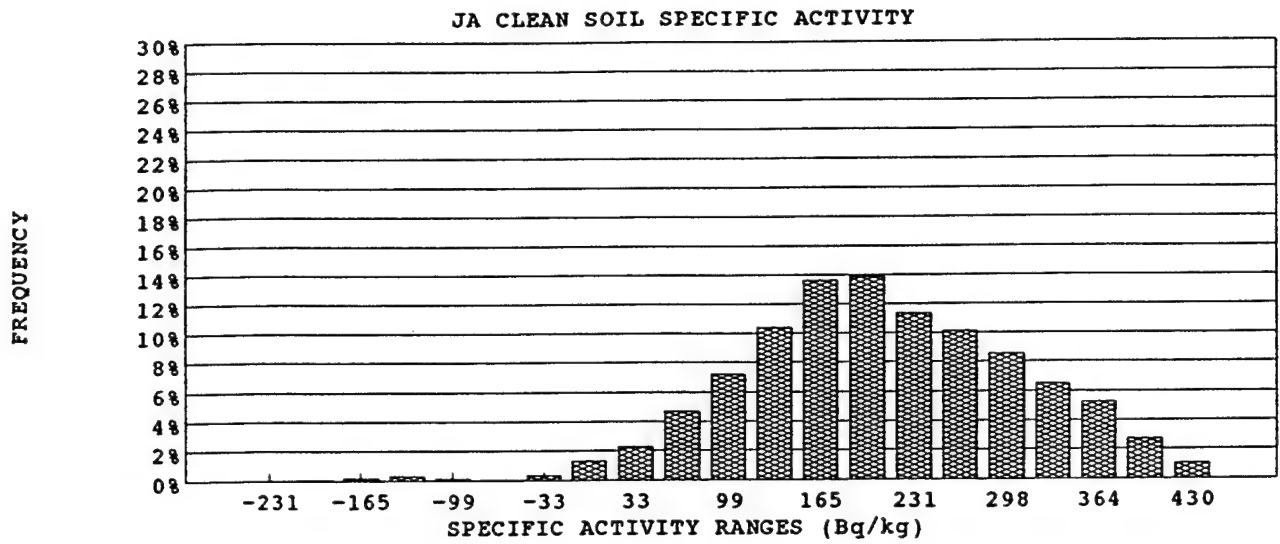
Date	25-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	344	Excused delays for contract (sorter-hrs)	7,212 hr
Current Contract week	58	Excused delay days (plant-days)	180 days
		Excused delay months (plant-month)	6.93 months
Soil production for Day	399 MT		
Cumulative Soil Production for Week	744 MT	Percent of contract completed	59.1%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,905 MT
Since 6 Sep 93	57,545 MT	Days ahead or behind schedule	6.0 days
Since 6 Aug 93	59,136 MT		
Total Soil production for project	85,423 MT		

MT = metric tons

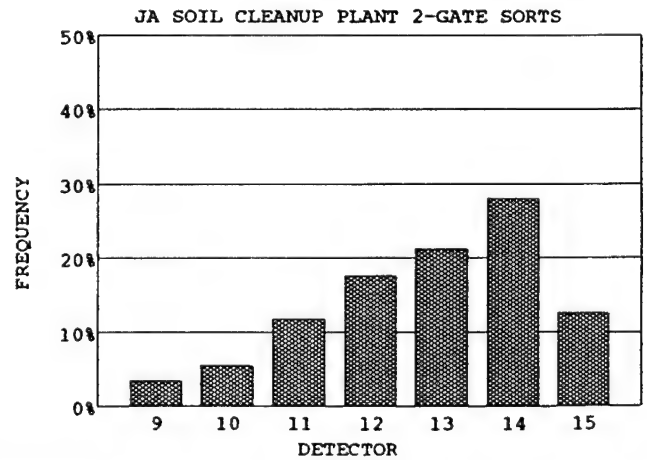
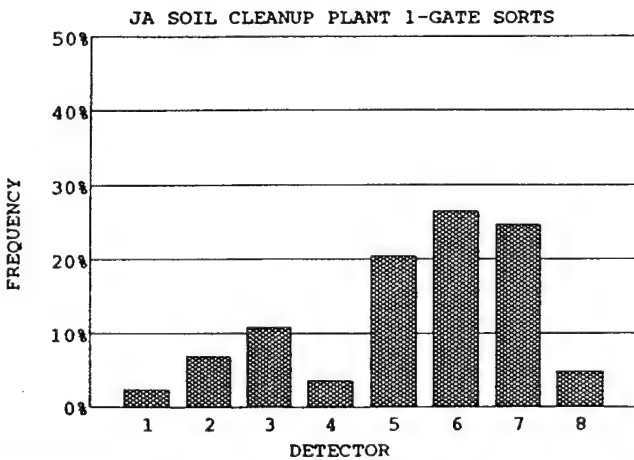
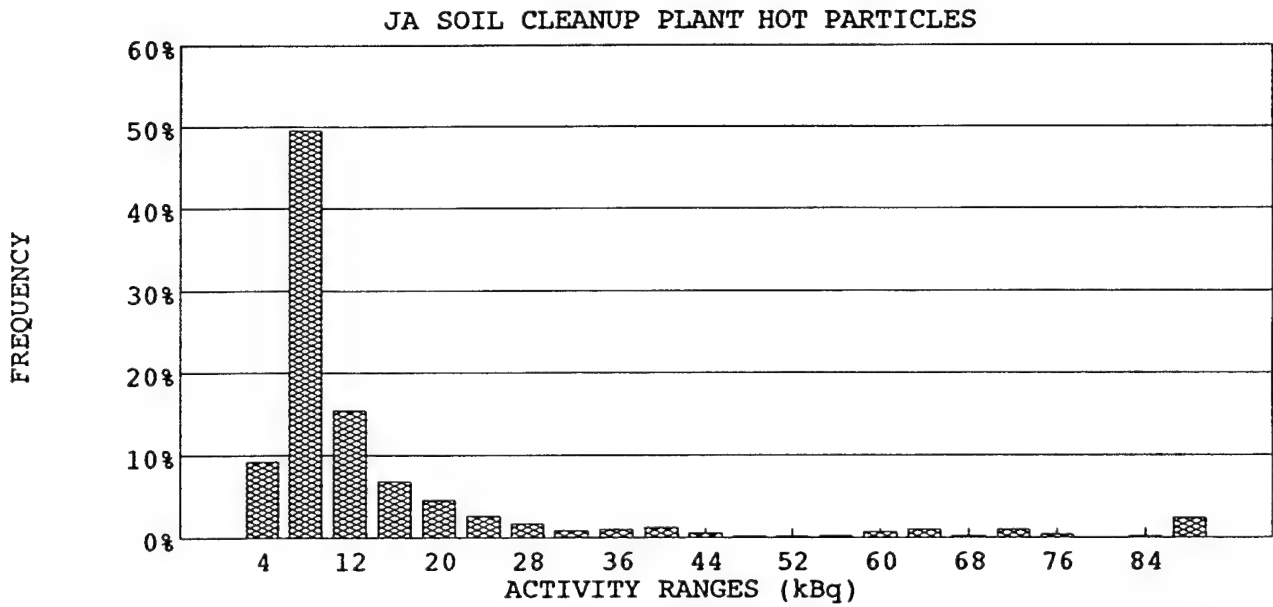
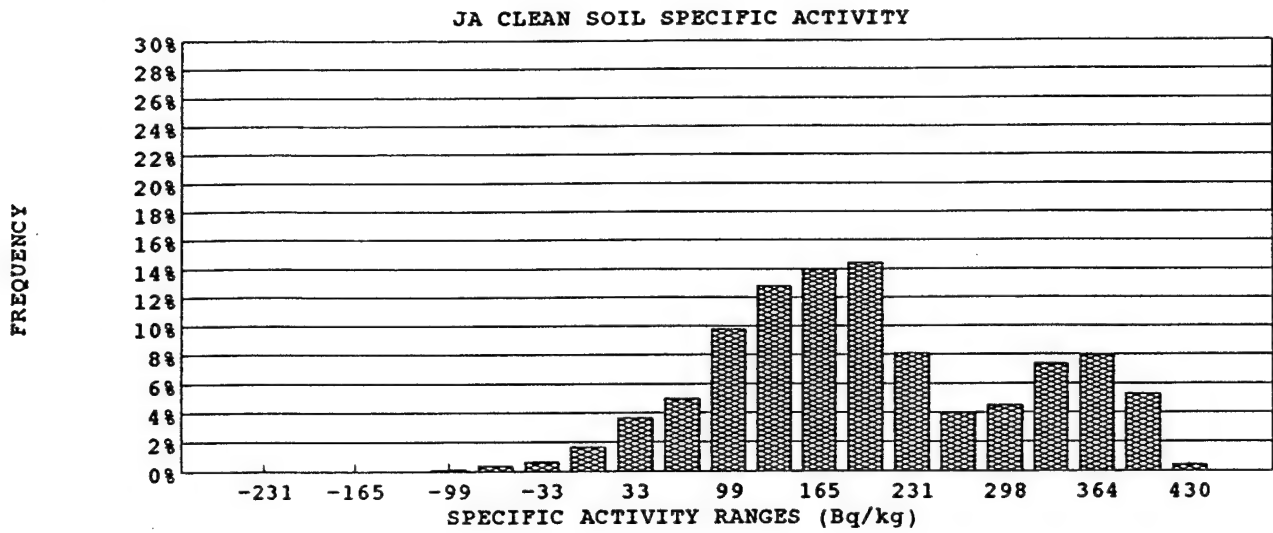
SORTER 1				25-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.32 ± 0.06 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		19.8 tons		81.6 tons		101.4 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		51.5 kg					
VOLUME IN-GROUND		15.7 yd ³		64.7 yd ³		80.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		80.5%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		64,116 kBq		23,090 kBq		21,865 kBq			
MAXIMUM/SORT		2,316 kBq		809 kBq		24 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				1,165 Bq/kg		268 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,675		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				298		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				597		11:30 13:32			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				780		13:50			
UNEXPLAINED RECORDS				0		15:13			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,750					
2-SEC RECORDS WITH SORTS				2,923					
2-SEC RECORDS WITHOUT SORTS				13,827					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,598					
NONPROCESSING RECORDS (Test, calibration, etc)				9					
2-SEC SORT DETECTORS									
1 DET		2,065	70.65%	5 DET		6	0.21%		
2 DET		686	23.47%	6 DET		0	0.00%		
3 DET		140	4.79%	7 DET		0	0.00%		
4 DET		26	0.89%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				16.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	64	4.3%	-14000	0	-231	0.0%	4	62	2.1%
2	206	13.7%	-12000	0	-198	0.0%	8	1,223	41.8%
3	257	17.1%	-10000	0	-165	0.0%	12	579	19.8%
4	276	18.4%	-8000	0	-132	0.0%	16	324	11.1%
5	285	19.0%	-6000	0	-99	0.0%	20	148	5.1%
6	201	13.4%	-4000	1	-66	0.1%	24	114	3.9%
7	168	11.2%	-2000	5	-33	0.4%	28	71	2.4%
8	44	2.9%	0	7	0	0.5%	32	44	1.5%
TOTAL	1,501		2000	11	33	0.8%	36	51	1.7%
			4000	5	66	0.4%	40	26	0.9%
2-GATE SORTS			6000	22	99	1.6%	44	29	1.0%
DET	SORTS	FREQ%	8000	29	132	2.1%	48	20	0.7%
9	159	11.2%	10000	57	165	4.1%	52	20	0.7%
10	203	14.3%	12000	113	198	8.2%	56	27	0.9%
11	275	19.3%	14000	194	231	14.0%	60	15	0.5%
12	254	17.9%	16000	231	264	16.7%	64	12	0.4%
13	257	18.1%	18000	225	298	16.2%	68	11	0.4%
14	159	11.2%	20000	213	331	15.4%	72	15	0.5%
15	115	8.1%	22000	177	364	12.8%	76	9	0.3%
TOTAL	1,422		24000	90	397	6.5%	80	6	0.2%
			26000	6	430	0.4%	84	10	0.3%
			>28000	0	0	0.0%	>84	107	3.7%
			TOTAL	1,386			TOTAL	2,923	
EVENT TYPES		HPE	2,824	MPE	686	DISE	22,686		



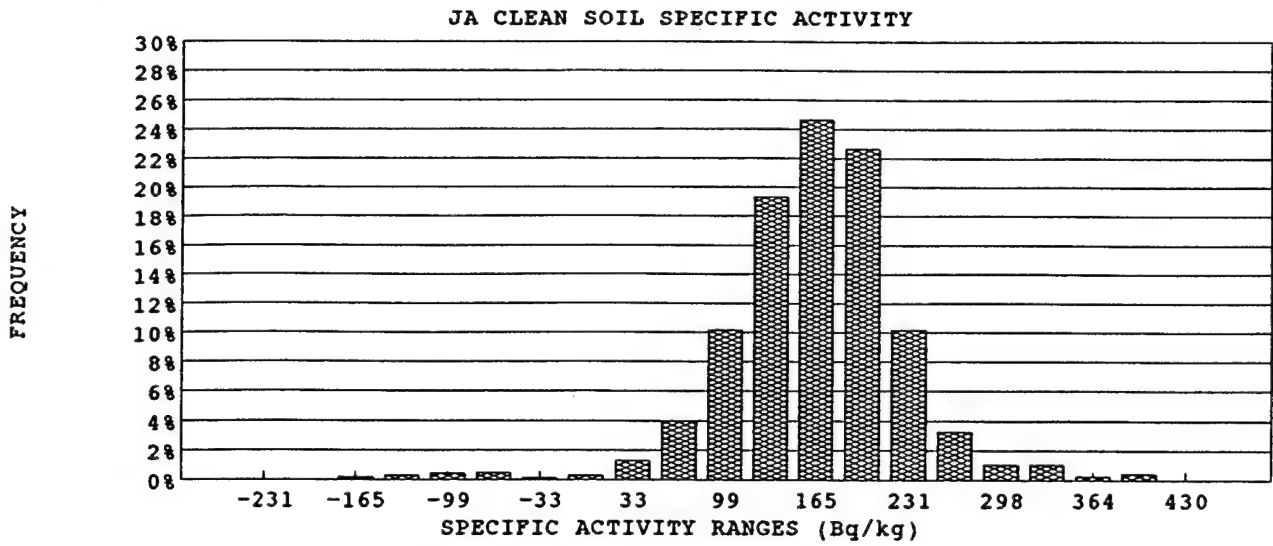
SORTER 2				25-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.76 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		9.0 tons		93.3 tons		102.3 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		49.2 kg					
VOLUME IN-GROUND		7.1 yd ³		74.0 yd ³		81.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		91.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		79,087 kBq		HOT 23,039 kBq		CLEAN 18,324 kBq			
MAXIMUM/SORT		3,721 kBq		1,562 kBq		26 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-13 kBq			
SPECIFIC ACTIVITY				2,573 Bq/kg		196 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,692		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				113		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				626		08:20 13:32			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				953		10:05			
UNEXPLAINED RECORDS				0		12:16			
0<AD<1kBq & MD>0				4		12:42			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,920					
2-SEC RECORDS WITH SORTS				2,809					
2-SEC RECORDS WITHOUT SORTS				14,111					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,501					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		1,964	69.92%	5 DET		12	0.43%		
2 DET		672	23.92%	6 DET		0	0.00%		
3 DET		131	4.66%	7 DET		2	0.07%		
4 DET		30	1.07%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				17.2 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	98	7.0%	-14000	0	-231	0.0%	4	93	3.3%
2	280	19.9%	-12000	1	-198	0.1%	8	1,178	41.9%
3	208	14.8%	-10000	3	-165	0.2%	12	519	18.5%
4	293	20.8%	-8000	5	-132	0.3%	16	266	9.5%
5	245	17.4%	-6000	2	-99	0.1%	20	151	5.4%
6	165	11.7%	-4000	1	-66	0.1%	24	96	3.4%
7	94	6.7%	-2000	6	-33	0.4%	28	72	2.6%
8	24	1.7%	0	21	0	1.3%	32	53	1.9%
TOTAL	1,407		2000	36	33	2.3%	36	31	1.1%
			4000	74	66	4.7%	40	38	1.4%
2-GATE SORTS			6000	114	99	7.2%	44	34	1.2%
DET	SORTS	FREQ%	8000	164	132	10.4%	48	30	1.1%
9	183	13.1%	10000	215	165	13.6%	52	24	0.9%
10	289	20.6%	12000	219	198	13.9%	56	26	0.9%
11	313	22.3%	14000	179	231	11.3%	60	13	0.5%
12	246	17.5%	16000	160	264	10.1%	64	9	0.3%
13	187	13.3%	18000	135	298	8.5%	68	10	0.4%
14	138	9.8%	20000	103	331	6.5%	72	16	0.6%
15	46	3.3%	22000	83	364	5.2%	76	7	0.2%
TOTAL	1,402		24000	43	397	2.7%	80	7	0.2%
			26000	17	430	1.1%	84	11	0.4%
			>28000	0	0	0.0%	>84	125	4.4%
			TOTAL	1,581			TOTAL	2,809	
EVENT TYPES		HPE	2,776	MPE	729	DISE	8,519		



SORTER 3				25-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.05 ± 0.27 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		4.1 tons		93.2 tons		97.3 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		55.2 kg					
VOLUME IN-GROUND		3.3 yd ³		73.9 yd ³		77.1 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		95.8%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		11,935 kBq		HOT 4,768 kBq		CLEAN 17,528 kBq			
MAXIMUM/SORT		629 kBq		281 kBq		24 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				1,158 Bq/kg		188 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,608		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				57		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,146		07:31 08:35			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				405		09:05 12:11			
UNEXPLAINED RECORDS				0		09:07 14:57			
0<AD<1kBq & MD>0				12		09:23			
AD=0 & MD>0				0		09:24			
AD<0 & MD >0				0		09:30			
2-SEC COUNT PERIODS				16,080		09:42			
2-SEC RECORDS WITH SORTS				715		10:40			
2-SEC RECORDS WITHOUT SORTS				15,365		10:49			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,323		10:59			
NONPROCESSING RECORDS (Test, calibration, etc)				14		11:41			
2-SEC SORT DETECTORS						11:47			
1 DET		564 78.88%	5 DET	2	0.28%				
2 DET		123 17.20%	6 DET	0	0.00%				
3 DET		21 2.94%	7 DET	0	0.00%				
4 DET		5 0.70%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS				57.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	8	2.4%	-14000	0	-231	0.0%	4	66	9.2%
2	23	6.9%	-12000	0	-198	0.0%	8	354	49.5%
3	36	10.8%	-10000	0	-165	0.0%	12	110	15.4%
4	12	3.6%	-8000	0	-132	0.0%	16	49	6.9%
5	68	20.4%	-6000	2	-99	0.1%	20	33	4.6%
6	88	26.4%	-4000	6	-66	0.4%	24	19	2.7%
7	82	24.6%	-2000	10	-33	0.6%	28	12	1.7%
8	16	4.8%	0	26	0	1.7%	32	6	0.8%
TOTAL	333		2000	57	33	3.6%	36	7	1.0%
			4000	78	66	5.0%	40	9	1.3%
2-GATE SORTS			6000	153	99	9.8%	44	4	0.6%
DET	SORTS	FREQ%	8000	200	132	12.8%	48	1	0.1%
9	13	3.4%	10000	219	165	14.0%	52	1	0.1%
10	21	5.5%	12000	226	198	14.4%	56	2	0.3%
11	45	11.8%	14000	127	231	8.1%	60	5	0.7%
12	67	17.5%	16000	62	264	4.0%	64	7	1.0%
13	81	21.2%	18000	70	298	4.5%	68	2	0.3%
14	107	28.0%	20000	115	331	7.3%	72	7	1.0%
15	48	12.6%	22000	124	364	7.9%	76	3	0.4%
TOTAL	382		24000	83	397	5.3%	80	0	0.0%
			26000	7	430	0.4%	84	1	0.1%
			>28000	0	0	0.0%	>84	17	2.4%
			TOTAL	1,565			TOTAL	715	
EVENT TYPES		HPE	782	MPE	142	DISE	4,515		



SORTER 4				25-Oct-94					
SORTER SOIL DENSITY			1.30 tons/m ³	BACKGROUND		0.64 ± 0.02 c/s			
SOIL			CONTAMINATED	CLEAN	TOTAL				
MASS TOTAL			1.0 tons	97.1 tons	98.1 tons				
MAXIMUM/SORT			63.0 kg	60.5 kg					
MINIMUM/SORT			0.8 kg	49.9 kg					
VOLUME IN-GROUND			0.8 yd ³	77.0 yd ³	77.7 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			99.0%						
ACTIVITY				DISPERSED + PARTICLE					
				PARTICLE	HOT	CLEAN			
TOTAL				44,607 kBq	11,570 kBq	14,646 kBq			
MAXIMUM/SORT				12,679 kBq	7,854 kBq	24 kBq			
MINIMUM/SORT				2 kBq	0 Bq	-11 kBq			
SPECIFIC ACTIVITY					12,091 Bq/kg	151 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS					1,621	UNEXP	PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				2		TIME	TIME		
NONE (AD=0 & MD=0 & MND>0)				1,133		08:15	12:20		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				486		09:19	13:46		
UNEXPLAINED RECORDS				0		11:29	14:16		
0<AD<1kBq & MD>0				8		12:30			
AD=0 & MD>0				0		12:55			
AD<0 & MD >0				0		15:15			
2-SEC COUNT PERIODS					16,210	15:25			
2-SEC RECORDS WITH SORTS				995		15:32			
2-SEC RECORDS WITHOUT SORTS				15,215					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)					2,616				
NONPROCESSING RECORDS (Test, calibration, etc)					16				
2-SEC SORT DETECTORS									
1 DET		738	74.17%	5 DET	4	0.40%			
2 DET		221	22.21%	6 DET	0	0.00%			
3 DET		27	2.71%	7 DET	0	0.00%			
4 DET		5	0.50%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				43.9 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	20	3.9%	-14000	0	-231	0.0%	4	72	7.2%
2	99	19.1%	-12000	0	-198	0.0%	8	481	48.3%
3	126	24.4%	-10000	3	-165	0.2%	12	148	14.9%
4	84	16.2%	-8000	5	-132	0.3%	16	82	8.2%
5	76	14.7%	-6000	7	-99	0.4%	20	49	4.9%
6	68	13.2%	-4000	8	-66	0.5%	24	35	3.5%
7	37	7.2%	-2000	2	-33	0.1%	28	23	2.3%
8	7	1.4%	0	5	0	0.3%	32	12	1.2%
TOTAL	517		2000	21	33	1.3%	36	9	0.9%
			4000	65	66	4.0%	40	14	1.4%
2-GATE SORTS			6000	166	99	10.2%	44	11	1.1%
DET	SORTS	FREQ%	8000	316	132	19.3%	48	5	0.5%
9	50	10.5%	10000	403	165	24.6%	52	4	0.4%
10	117	24.5%	12000	370	198	22.6%	56	6	0.6%
11	113	23.6%	14000	166	231	10.2%	60	3	0.3%
12	67	14.0%	16000	53	264	3.2%	64	2	0.2%
13	65	13.6%	18000	17	298	1.0%	68	3	0.3%
14	45	9.4%	20000	17	331	1.0%	72	3	0.3%
15	21	4.4%	22000	4	364	0.2%	76	2	0.2%
TOTAL	478		24000	7	397	0.4%	80	1	0.1%
			26000	0	430	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	30	3.0%
			TOTAL	1,635			TOTAL	995	
EVENT TYPES		HPE	995	MPE	99	DISE	166		



WORK HISTORY - JA SOIL CLEANUP PLANT

26-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

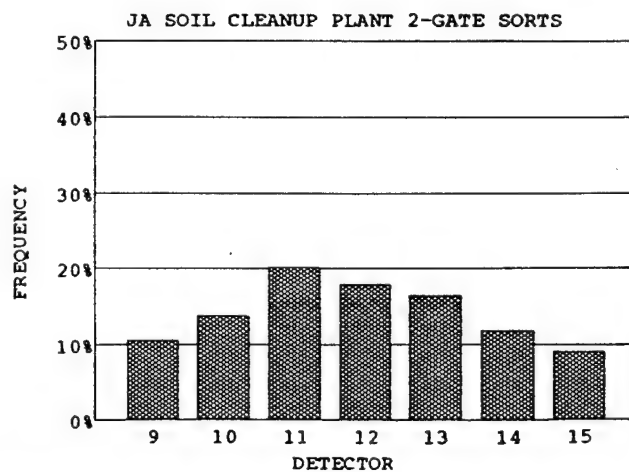
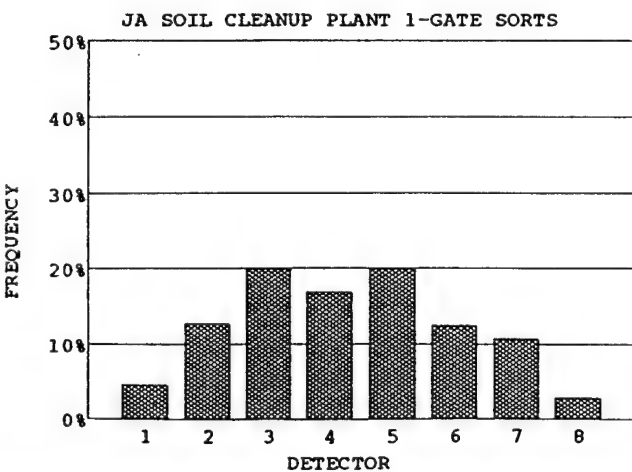
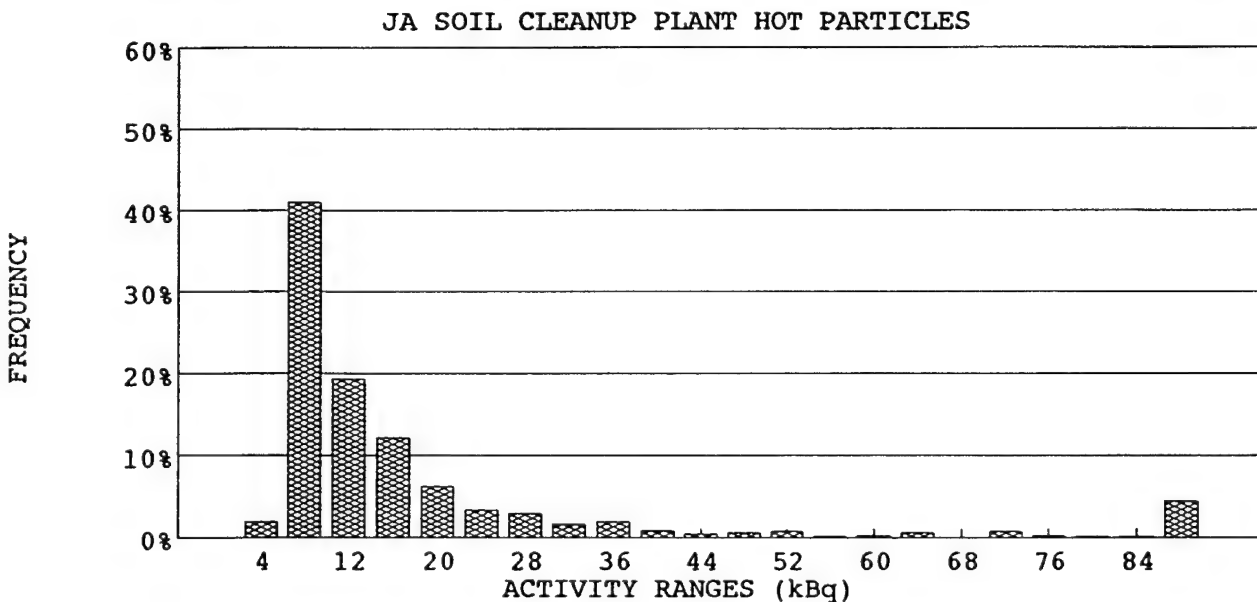
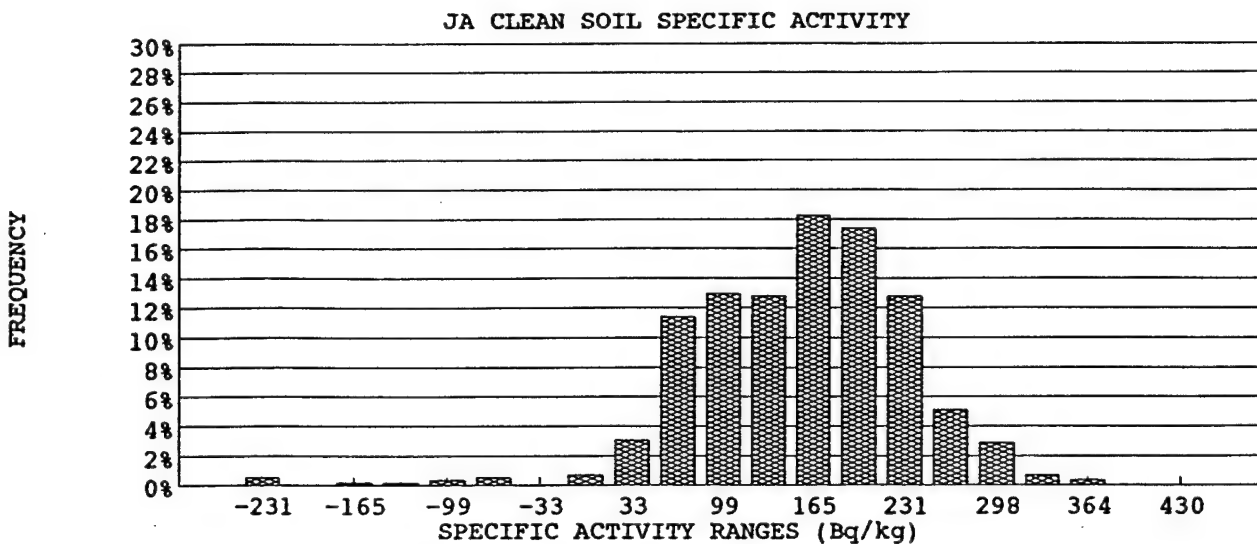
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.2 hr	9.2 hr	9.2 hr	9.2 hr	36.8 hr
SORTER START-UP	07:12	07:12	06:40	06:40	
START SOIL PROCESSING	07:14	07:14	06:53	06:53	
TIME REQUIRED TO START-UP	0.0 hr	0.0 hr	0.2 hr	0.2 hr	0.5 hr
SORTER SHUT-DOWN	16:25	16:25	15:50	15:50	
END SOIL PROCESSING	16:00	16:05	15:35	15:34	
TIME REQUIRED TO SHUT DOWN	0.4 hr	0.3 hr	0.2 hr	0.3 hr	1.2 hr
ACTUAL PROCESS HOURS	3.2 hr	3.3 hr	3.9 hr	3.8 hr	14.2 hr
DOWN-TIME	6.0 hr	5.9 hr	5.3 hr	5.3 hr	22.6 hr
SYSTEM PAUSE	5.6 hr	5.6 hr	4.8 hr	4.9 hr	20.9 hr
SORTER NONAVAILABLE TIME	1.3 hr	1.3 hr	1.3 hr	1.3 hr	5.2 hr
AUTHORIZED DELAY TIME	5.6 hr	5.6 hr	4.8 hr	4.8 hr	20.8 hr
PLANT PERFORMANCE					38.5%
PRODUCTIVITY					33.7%

PRODUCTIVITY

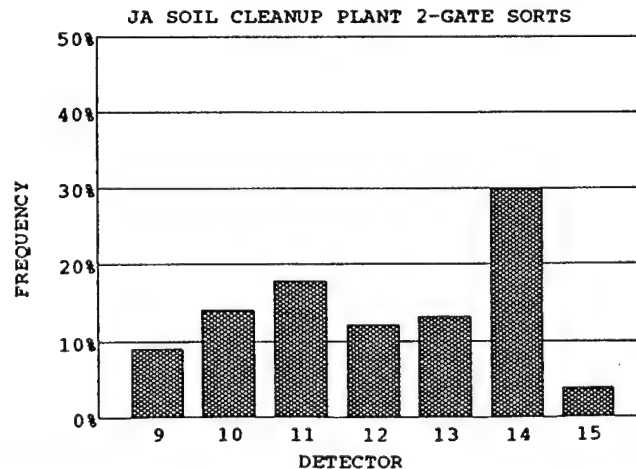
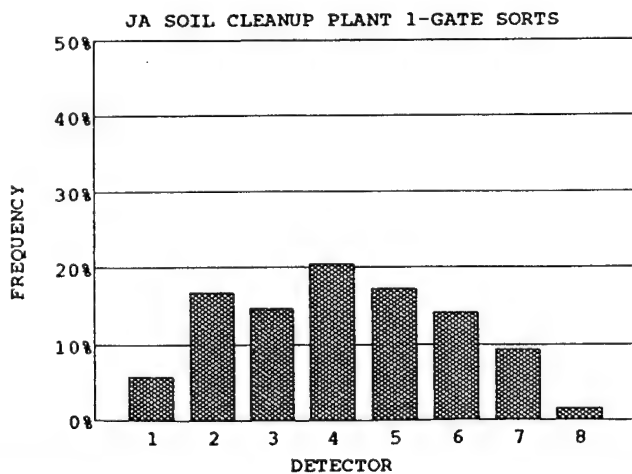
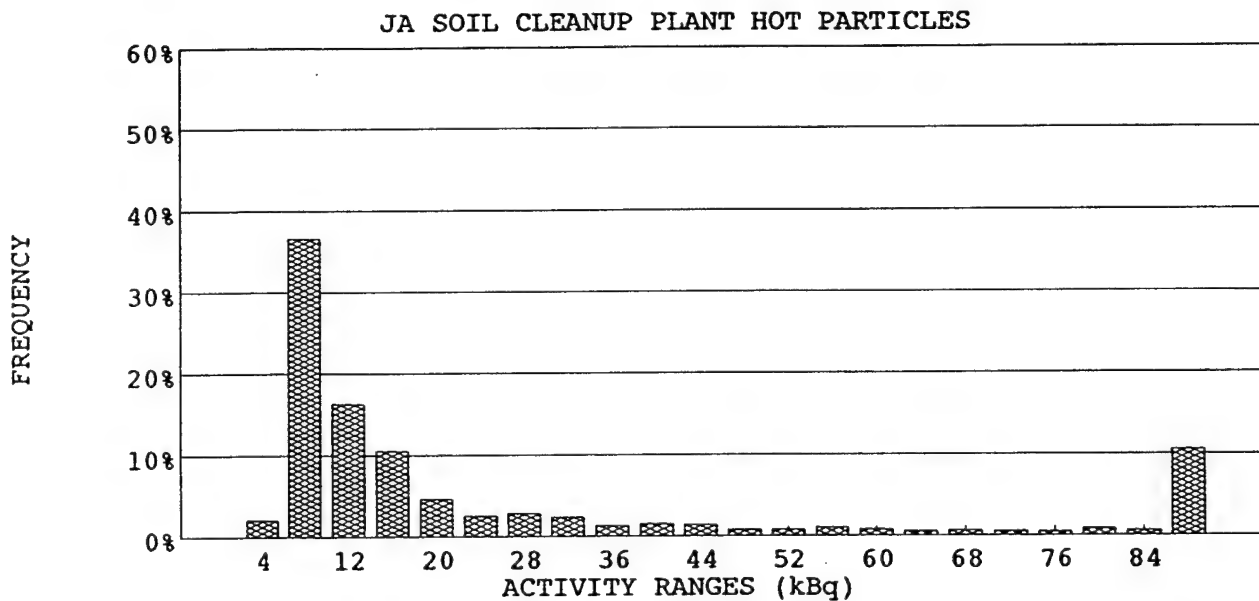
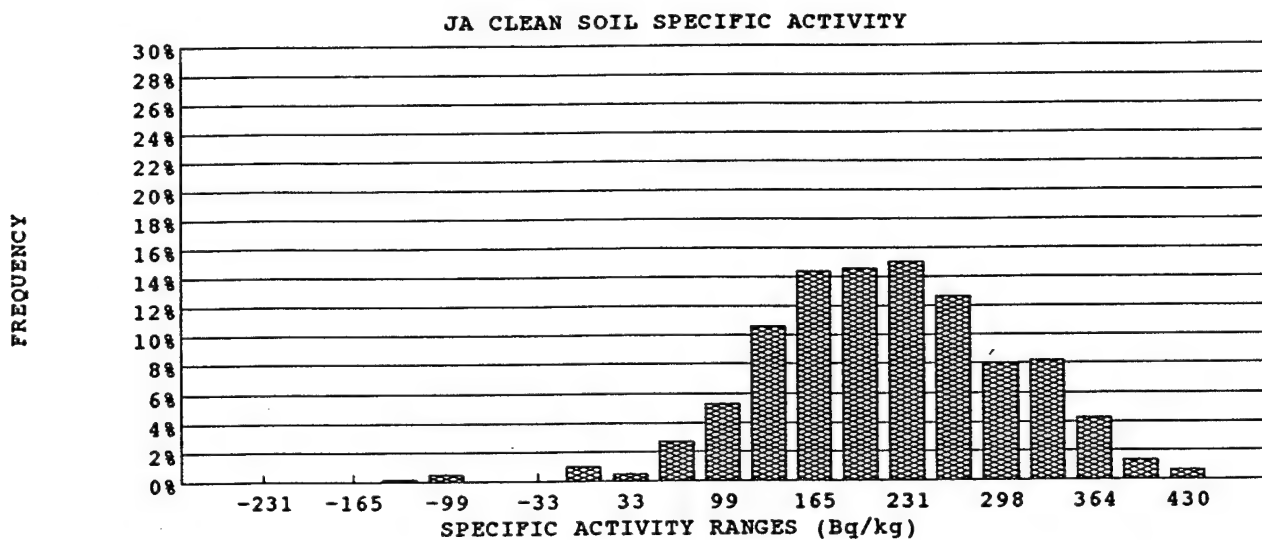
Date	26-Oct-94	Excused Delays for day (sorter-hrs)	20.8 hr
Contract day (from 6 Sep)	345	Excused delays for contract (sorter-hrs)	7,233 hr
Current Contract week	58	Excused delay days (plant-days)	181 days
		Excused delay months (plant-month)	6.95 months
Soil production for Day	154 MT		
Cumulative Soil Production for Week	898 MT	Percent of contract completed	59.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,907 MT
Since 6 Sep 93	57,699 MT	Days ahead or behind schedule	6.0 days
Since 6 Aug 93	59,290 MT		
Total Soil production for project	85,577 MT		

MT = metric tons

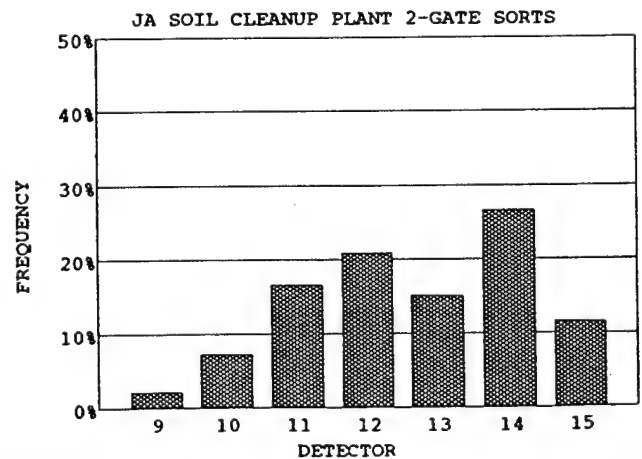
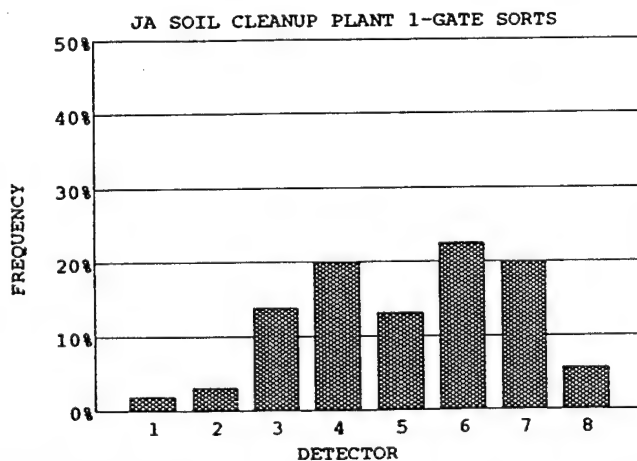
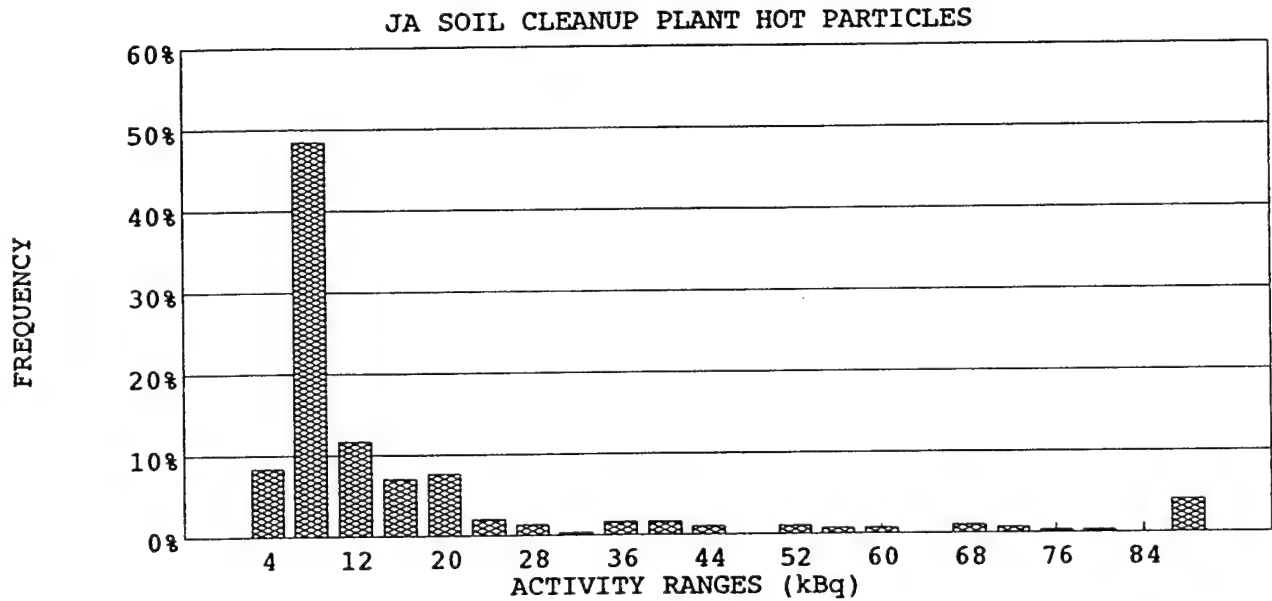
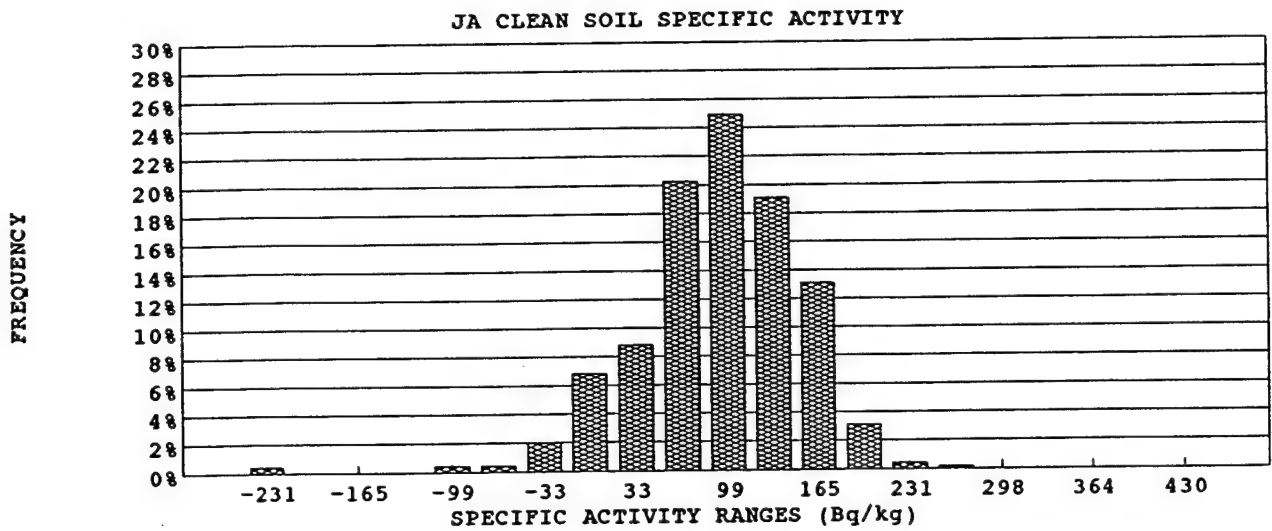
SORTER 1				26-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.68 ± 0.12 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.7 tons		34.3 tons		35.0 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		53.0 kg					
VOLUME IN-GROUND		0.6 yd³		27.2 yd³		27.8 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		97.9%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT	CLEAN				
TOTAL		17,630 kBq		3,796 kBq	4,838 kBq				
MAXIMUM/SORT		878 kBq		387 kBq	21 kBq				
MINIMUM/SORT		3 kBq		0 Bq	-74 kBq				
SPECIFIC ACTIVITY				5,276 Bq/kg	141 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				579		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				1		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				276		07:16 10:09			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				302		08:25 16:02			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				5,790					
2-SEC RECORDS WITH SORTS				788					
2-SEC RECORDS WITHOUT SORTS				5,002					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,367					
NONPROCESSING RECORDS (Test, calibration, etc)				10					
2-SEC SORT DETECTORS									
1 DET		576	73.10%	5 DET	0	0.00%			
2 DET		174	22.08%	6 DET	0	0.00%			
3 DET		33	4.19%	7 DET	0	0.00%			
4 DET		5	0.63%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				20.1 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	18	4.6%	-14000	3	-231	0.5%	4	15	1.9%
2	50	12.8%	-12000	0	-198	0.0%	8	323	41.0%
3	78	19.9%	-10000	1	-165	0.2%	12	152	19.3%
4	66	16.8%	-8000	1	-132	0.2%	16	96	12.2%
5	78	19.9%	-6000	2	-99	0.3%	20	49	6.2%
6	49	12.5%	-4000	3	-66	0.5%	24	27	3.4%
7	42	10.7%	-2000	0	-33	0.0%	28	23	2.9%
8	11	2.8%	0	4	0	0.7%	32	13	1.6%
TOTAL	392		2000	18	33	3.1%	36	15	1.9%
			4000	67	66	11.4%	40	7	0.9%
2-GATE SORTS			6000	76	99	12.9%	44	4	0.5%
DET	SORTS	FREQ%	8000	75	132	12.8%	48	5	0.6%
9	42	10.6%	10000	107	165	18.2%	52	6	0.8%
10	55	13.9%	12000	102	198	17.4%	56	1	0.1%
11	80	20.2%	14000	75	231	12.8%	60	2	0.3%
12	71	17.9%	16000	30	264	5.1%	64	5	0.6%
13	65	16.4%	18000	17	298	2.9%	68	0	0.0%
14	47	11.9%	20000	4	331	0.7%	72	6	0.8%
15	36	9.1%	22000	2	364	0.3%	76	2	0.3%
TOTAL	396		24000	0	397	0.0%	80	1	0.1%
			26000	0	430	0.0%	84	1	0.1%
			>28000	0	0	0.0%	>84	35	4.4%
			TOTAL	587			TOTAL	788	
EVENT TYPES		HPE	778	MPE	92	DISE	79		



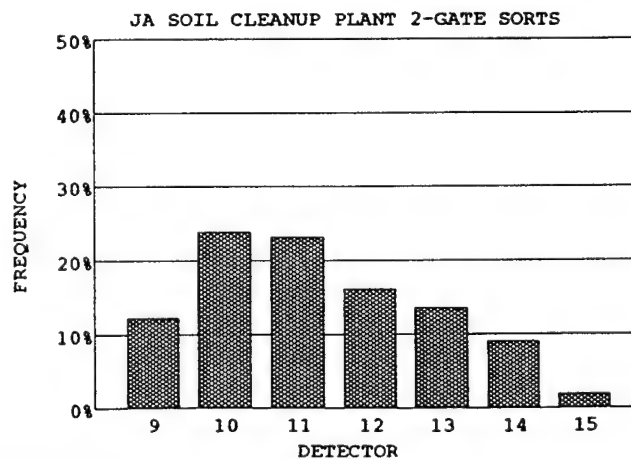
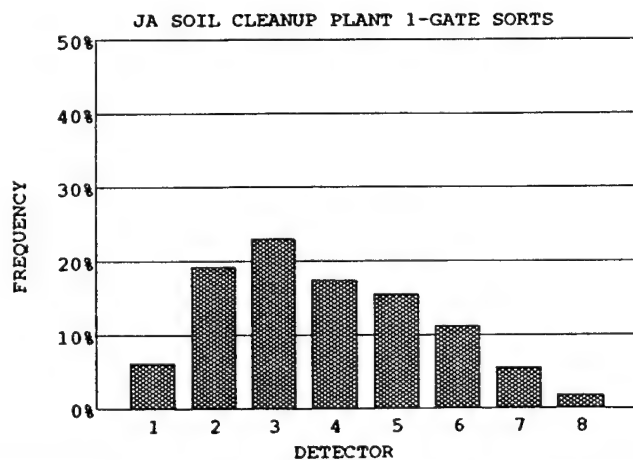
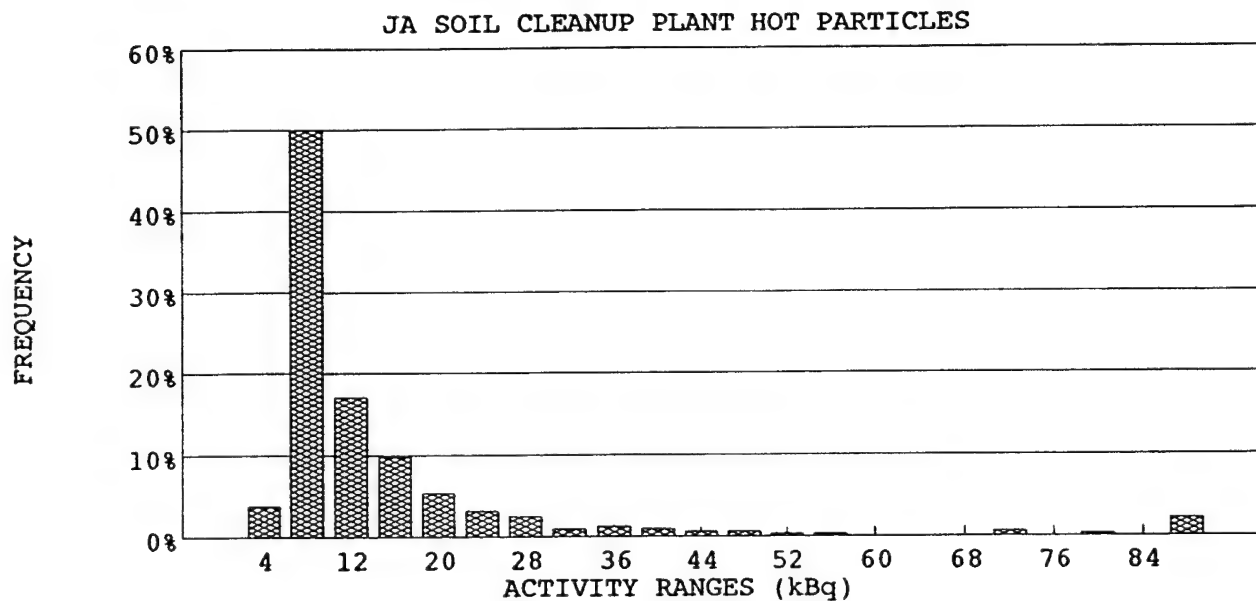
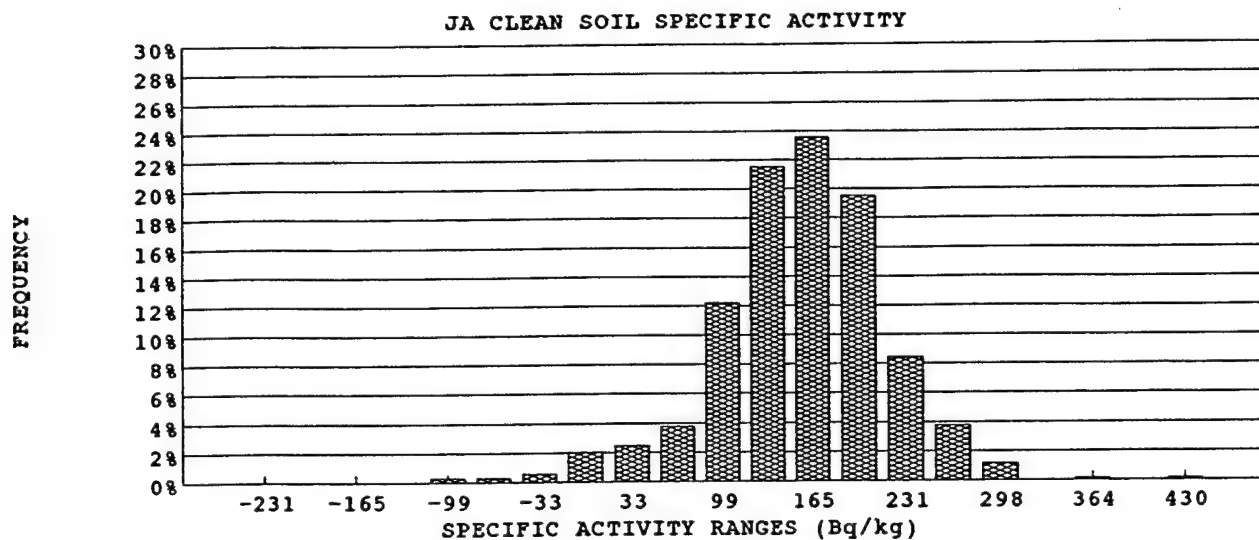
SORTER 2				26-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.49 ± 0.13 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		1.3 tons		34.2 tons		35.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		53.0 kg					
VOLUME IN-GROUND		1.0 yd³		27.1 yd³		28.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		96.3%							
ACTIVITY		PARTICLE		HOT		DISPERSED + PARTICLE CLEAN			
TOTAL		44,315 kBq		5,008 kBq		7,102 kBq			
MAXIMUM/SORT		1,231 kBq		313 kBq		25 kBq			
MINIMUM/SORT		2 kBq		(480)Bq		-1 kBq			
SPECIFIC ACTIVITY				3,781 Bq/kg		207 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				589		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				10		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				240		07:54 10:08			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				338		07:55			
UNEXPLAINED RECORDS				1		07:56			
0<AD<1kBq & MD>0				12		08:03			
AD=0 & MD>0				0		08:08			
AD<0 & MD >0				1		08:09			
2-SEC COUNT PERIODS				5,890		08:21			
2-SEC RECORDS WITH SORTS				902		08:28			
2-SEC RECORDS WITHOUT SORTS				4,988		08:29			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,491		08:29			
NONPROCESSING RECORDS (Test, calibration, etc)				6		08:29			
2-SEC SORT DETECTORS						08:40			
1 DET		665	73.73%	5 DET	3	0.33%	09:12		
2 DET		187	20.73%	6 DET	0	0.00%			
3 DET		43	4.77%	7 DET	0	0.00%			
4 DET		4	0.44%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				17.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	22	5.8%	-14000	0	-231	0.0%	4	19	2.1%
2	64	16.8%	-12000	0	-198	0.0%	8	330	36.6%
3	56	14.7%	-10000	0	-165	0.0%	12	147	16.3%
4	78	20.4%	-8000	1	-132	0.2%	16	95	10.5%
5	66	17.3%	-6000	3	-99	0.5%	20	42	4.7%
6	54	14.1%	-4000	0	-66	0.0%	24	23	2.5%
7	36	9.4%	-2000	0	-33	0.0%	28	26	2.9%
8	6	1.6%	0	6	0	1.0%	32	22	2.4%
TOTAL	382		2000	3	33	0.5%	36	12	1.3%
			4000	16	66	2.7%	40	14	1.6%
2-GATE SORTS			6000	31	99	5.3%	44	13	1.4%
DET	SORTS	FREQ%	8000	62	132	10.6%	48	7	0.8%
9	47	9.0%	10000	84	165	14.4%	52	7	0.8%
10	73	14.0%	12000	85	198	14.5%	56	9	1.0%
11	93	17.9%	14000	88	231	15.0%	60	7	0.8%
12	63	12.1%	16000	74	264	12.6%	64	5	0.6%
13	69	13.3%	18000	47	298	8.0%	68	6	0.7%
14	155	29.8%	20000	48	331	8.2%	72	5	0.6%
15	20	3.8%	22000	25	364	4.3%	76	4	0.4%
TOTAL	520		24000	8	397	1.4%	80	8	0.9%
			26000	4	430	0.7%	84	6	0.7%
			>28000	0	0	0.0%	>84	95	10.5%
			TOTAL	585			TOTAL	902	
EVENT TYPES		HPE	973	MPE	139	DISE	763		



SORTER 3				26-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.59 ± 0.11 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.3 tons		41.8 tons		42.1 tons			
MAXIMUM/SORT		7.6 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		53.0 kg					
VOLUME IN-GROUND		0.2 yd ³		33.1 yd ³		33.3 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.4%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		19,969 kBq		4,884 kBq		3,098 kBq			
MAXIMUM/SORT		7,338 kBq		3,460 kBq		14 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-84 kBq			
SPECIFIC ACTIVITY				18,024 Bq/kg		74 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				695		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				517		07:01 10:12			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				178		09:09			
UNEXPLAINED RECORDS				0		09:28			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				6,950					
2-SEC RECORDS WITH SORTS				299					
2-SEC RECORDS WITHOUT SORTS				6,651					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				994					
NONPROCESSING RECORDS (Test, calibration, etc)				7					
2-SEC SORT DETECTORS									
1 DET		225	75.25%	5 DET		3	1.00%		
2 DET		62	20.74%	6 DET		0	0.00%		
3 DET		7	2.34%	7 DET		1	0.33%		
4 DET		2	0.67%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				61.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	1.9%	-14000	3	-231	0.4%	4	25	8.4%
2	5	3.1%	-12000	0	-198	0.0%	8	145	48.5%
3	22	13.8%	-10000	0	-165	0.0%	12	35	11.7%
4	32	20.0%	-8000	0	-132	0.0%	16	21	7.0%
5	21	13.1%	-6000	3	-99	0.4%	20	23	7.7%
6	36	22.5%	-4000	3	-66	0.4%	24	6	2.0%
7	32	20.0%	-2000	14	-33	2.0%	28	4	1.3%
8	9	5.6%	0	48	0	6.8%	32	1	0.3%
TOTAL	160		2000	62	33	8.8%	36	5	1.7%
			4000	142	66	20.2%	40	5	1.7%
			6000	175	99	24.9%	44	3	1.0%
2-GATE SORTS			8000	134	132	19.1%	48	0	0.0%
DET	SORTS	FREQ%							
9	3	2.2%	10000	92	165	13.1%	52	3	1.0%
10	10	7.2%	12000	22	198	3.1%	56	2	0.7%
11	23	16.5%	14000	3	231	0.4%	60	2	0.7%
12	29	20.9%	16000	1	264	0.1%	64	0	0.0%
13	21	15.1%	18000	0	298	0.0%	68	3	1.0%
14	37	26.6%	20000	0	331	0.0%	72	2	0.7%
15	16	11.5%	22000	0	364	0.0%	76	1	0.3%
TOTAL	139		24000	0	397	0.0%	80	1	0.3%
			26000	0	430	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	12	4.0%
			TOTAL	702			TOTAL	299	
EVENT TYPES		HPE	308	MPE	47	DISE	0		



SORTER 4				26-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.30 ± 0.17 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		0.5 tons		41.1 tons		41.6 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		56.0 kg					
VOLUME IN-GROUND		0.4 yd³		32.6 yd³		33.0 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		98.8%							
ACTIVITY				PARTICLE		DISPERSED + PARTICLE			
TOTAL		4,464 kBq		HOT		CLEAN			
MAXIMUM/SORT		215 kBq		1,257 kBq		5,792 kBq			
MINIMUM/SORT		3 kBq		82 kBq		25 kBq			
SPECIFIC ACTIVITY				0 Bq		-7 kBq			
				2,441 Bq/kg		141 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				688		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				4		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				523		None		10:10	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				161				10:12	
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				0					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				6,880					
2-SEC RECORDS WITH SORTS				316					
2-SEC RECORDS WITHOUT SORTS				6,564					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,004					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		235	74.37%	5 DET		0	0.00%		
2 DET		68	21.52%	6 DET		0	0.00%		
3 DET		13	4.11%	7 DET		0	0.00%		
4 DET		0	0.00%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				58.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	10	6.2%	-14000	0	-231	0.0%	4	12	3.8%
2	31	19.3%	-12000	0	-198	0.0%	8	158	50.0%
3	37	23.0%	-10000	0	-165	0.0%	12	54	17.1%
4	28	17.4%	-8000	0	-132	0.0%	16	31	9.8%
5	25	15.5%	-6000	2	-99	0.3%	20	17	5.4%
6	18	11.2%	-4000	2	-66	0.3%	24	10	3.2%
7	9	5.6%	-2000	4	-33	0.6%	28	8	2.5%
8	3	1.9%	0	14	0	2.0%	32	3	0.9%
TOTAL	161		2000	17	33	2.5%	36	4	1.3%
			4000	26	66	3.8%	40	3	0.9%
2-GATE SORTS			6000	84	99	12.2%	44	2	0.6%
DET	SORTS	FREQ%	8000	148	132	21.5%	48	2	0.6%
9	19	12.3%	10000	162	165	23.6%	52	1	0.3%
10	37	23.9%	12000	134	198	19.5%	56	1	0.3%
11	36	23.2%	14000	58	231	8.4%	60	0	0.0%
12	25	16.1%	16000	26	264	3.8%	64	0	0.0%
13	21	13.5%	18000	8	298	1.2%	68	0	0.0%
14	14	9.0%	20000	0	331	0.0%	72	2	0.6%
15	3	1.9%	22000	1	364	0.1%	76	0	0.0%
TOTAL	155		24000	0	397	0.0%	80	1	0.3%
			26000	1	430	0.1%	84	0	0.0%
			>28000	0	0	0.0%	>84	7	2.2%
			TOTAL	687			TOTAL	316	
EVENT TYPES		HPE	321	MPE	39	DISE	320		



WORK HISTORY - JA SOIL CLEANUP PLANT

27-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:45 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

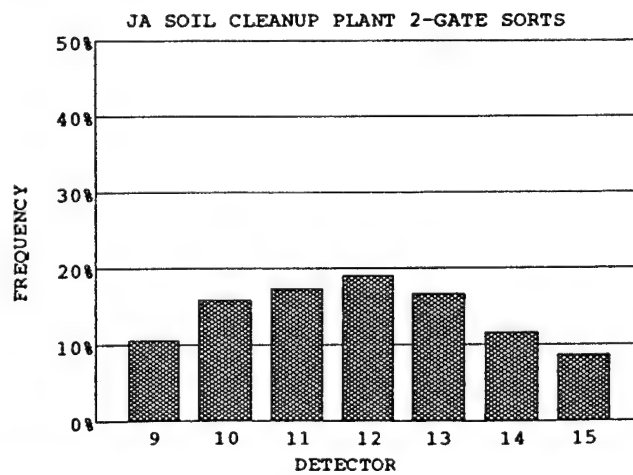
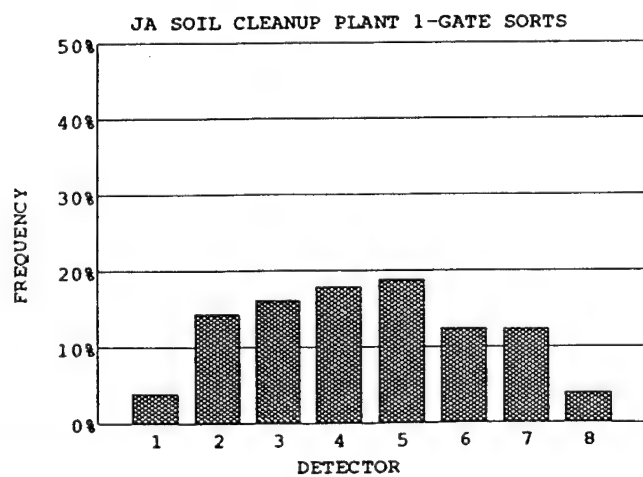
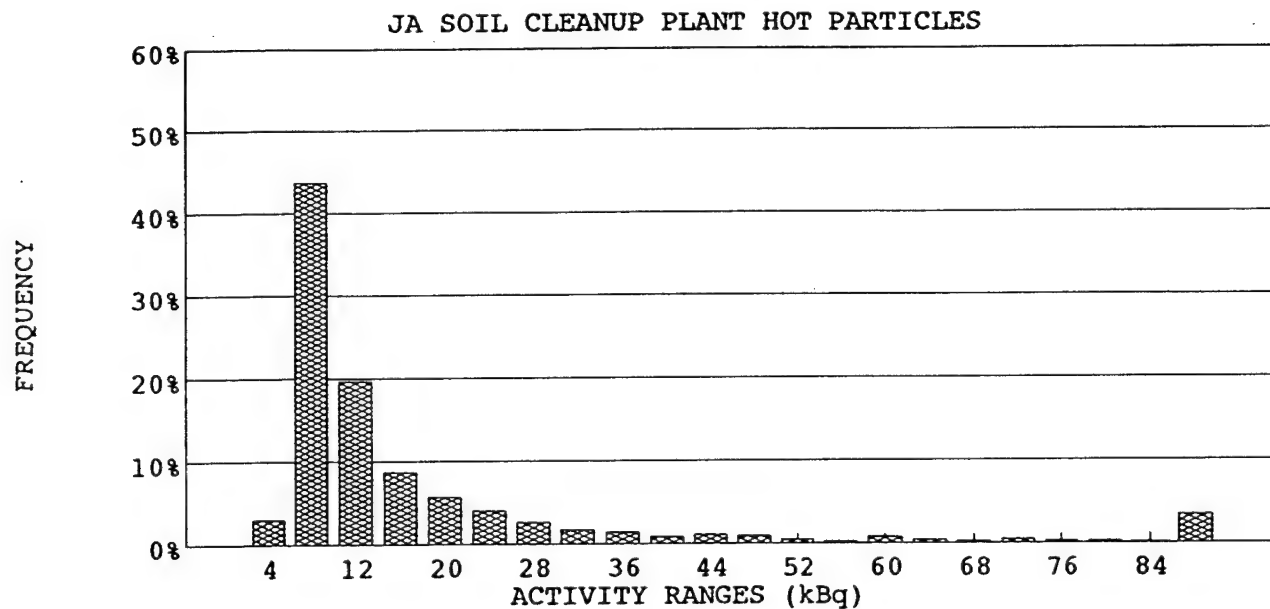
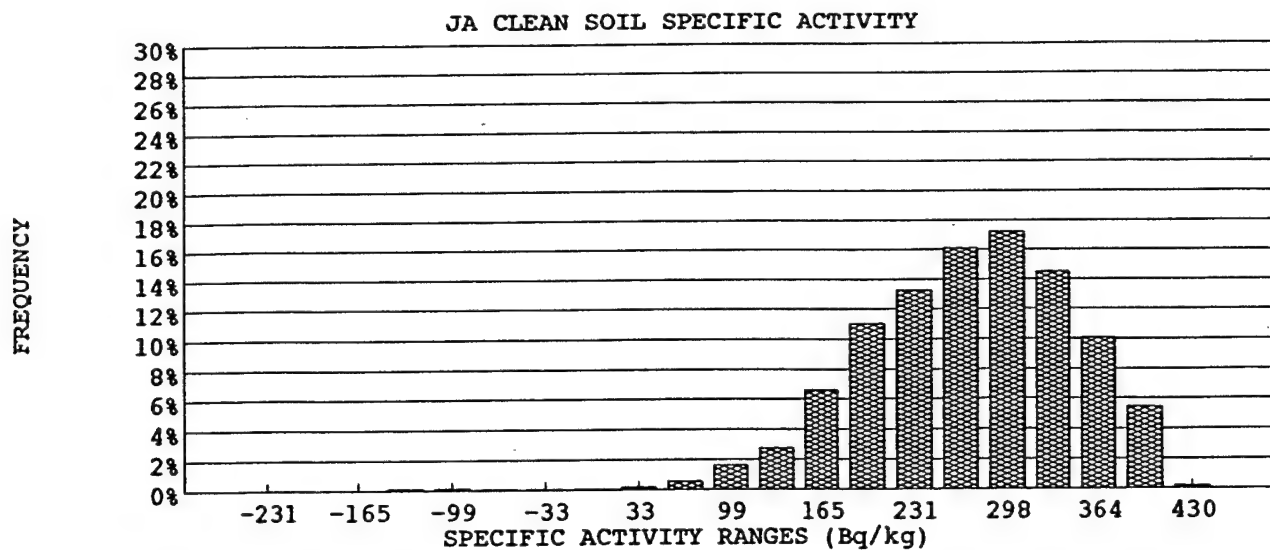
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.8 hr	10.8 hr	10.8 hr	10.8 hr	43.0 hr
SORTER AVAILABLE HOURS	10.4 hr	10.4 hr	10.4 hr	10.4 hr	41.7 hr
SORTER START-UP	06:20	06:20	06:20	06:20	
START SOIL PROCESSING	06:40	06:40	06:47	06:47	
TIME REQUIRED TO START-UP	0.3 hr	0.3 hr	0.5 hr	0.5 hr	1.6 hr
SORTER SHUT-DOWN	16:45	16:45	16:45	16:45	
END SOIL PROCESSING	16:32	16:37	16:30	16:35	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.1 hr	0.2 hr	0.2 hr	0.7 hr
ACTUAL PROCESS HOURS	9.2 hr	9.3 hr	9.0 hr	9.2 hr	36.7 hr
DOWN-TIME	1.2 hr	1.1 hr	1.4 hr	1.2 hr	5.0 hr
SYSTEM PAUSE	0.7 hr	0.7 hr	0.7 hr	0.6 hr	2.6 hr
SORTER NONAVAILABLE TIME	0.3 hr	0.3 hr	0.3 hr	0.3 hr	1.3 hr
AUTHORIZED DELAY TIME	0.6 hr	0.6 hr	0.6 hr	0.6 hr	2.4 hr
PLANT PERFORMANCE					88.0%
PRODUCTIVITY					85.2%

PRODUCTIVITY

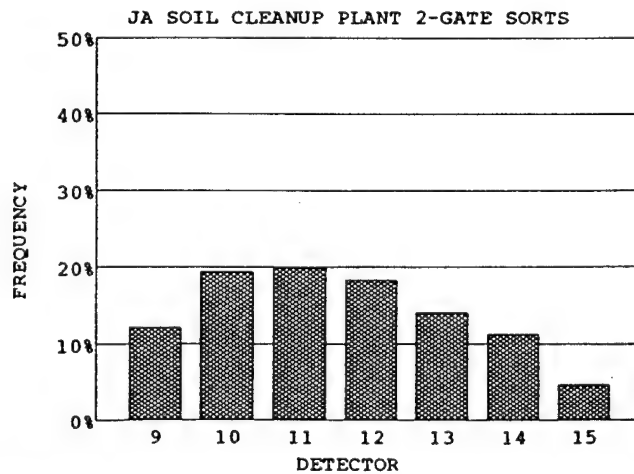
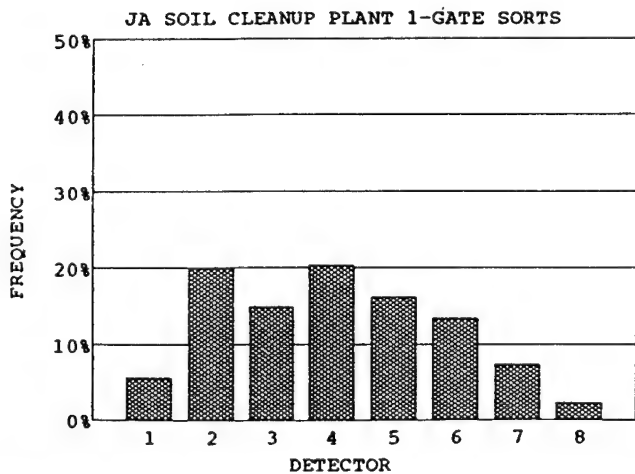
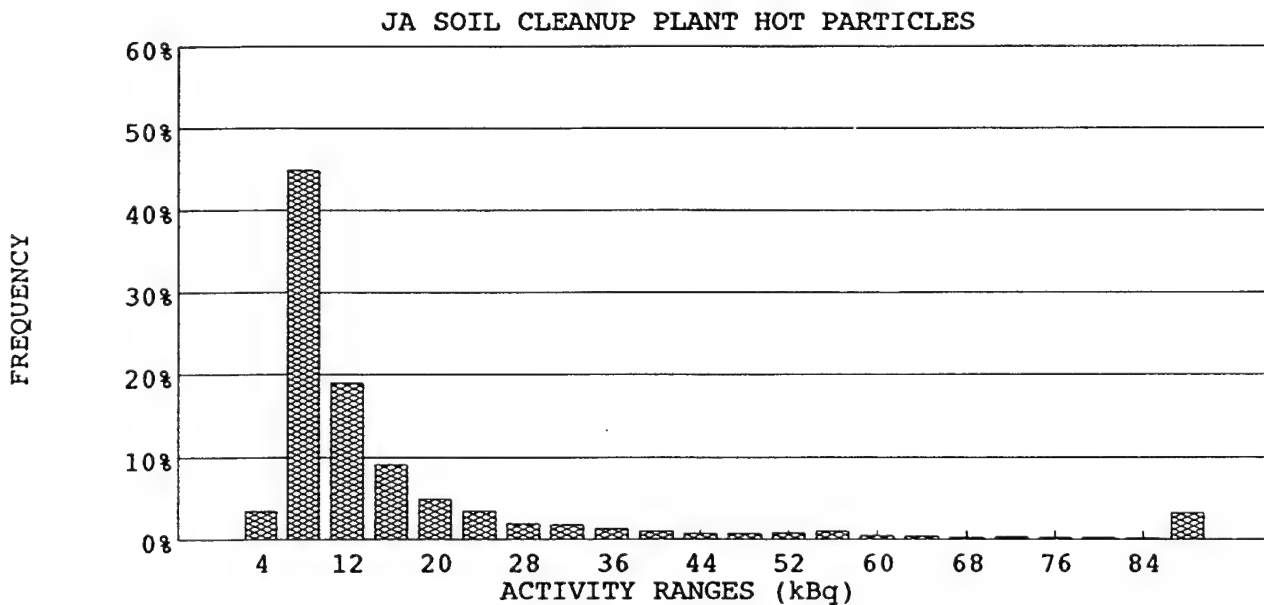
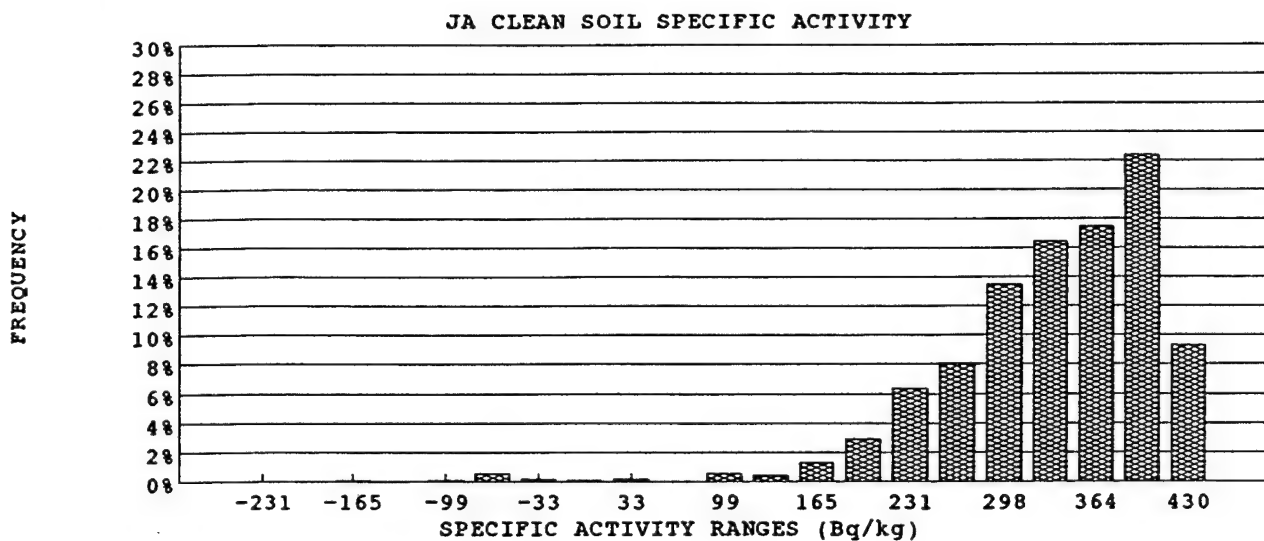
Date	27-Oct-94	Excused Delays for day (sorter-hrs)	2.4 hr
Contract day (from 6 Sep)	346	Excused delays for contract (sorter-hrs)	7,235 hr
Current Contract week	58	Excused delay days (plant-days)	181 days
		Excused delay months (plant-month)	6.96 months
Soil production for Day	399 MT		
Cumulative Soil Production for Week	1,297 MT	Percent of contract completed	59.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	2,009 MT
Since 6 Sep 93	58,098 MT	Days ahead or behind schedule	6.3 days
Since 6 Aug 93	59,689 MT		
Total Soil production for project	85,976 MT		

MT = metric tons

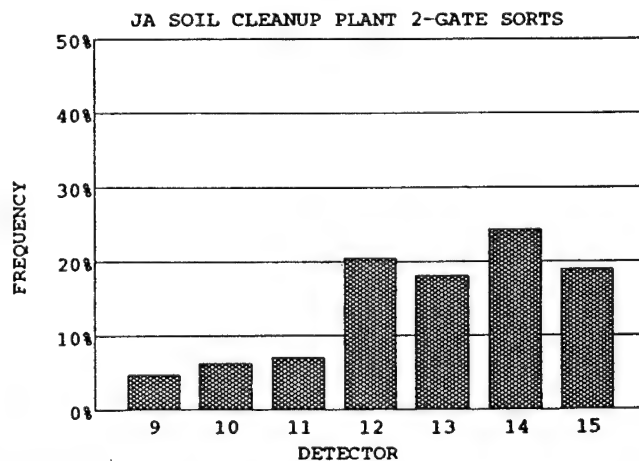
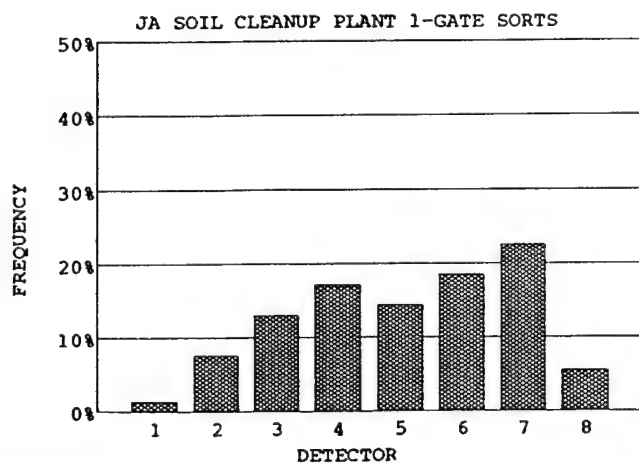
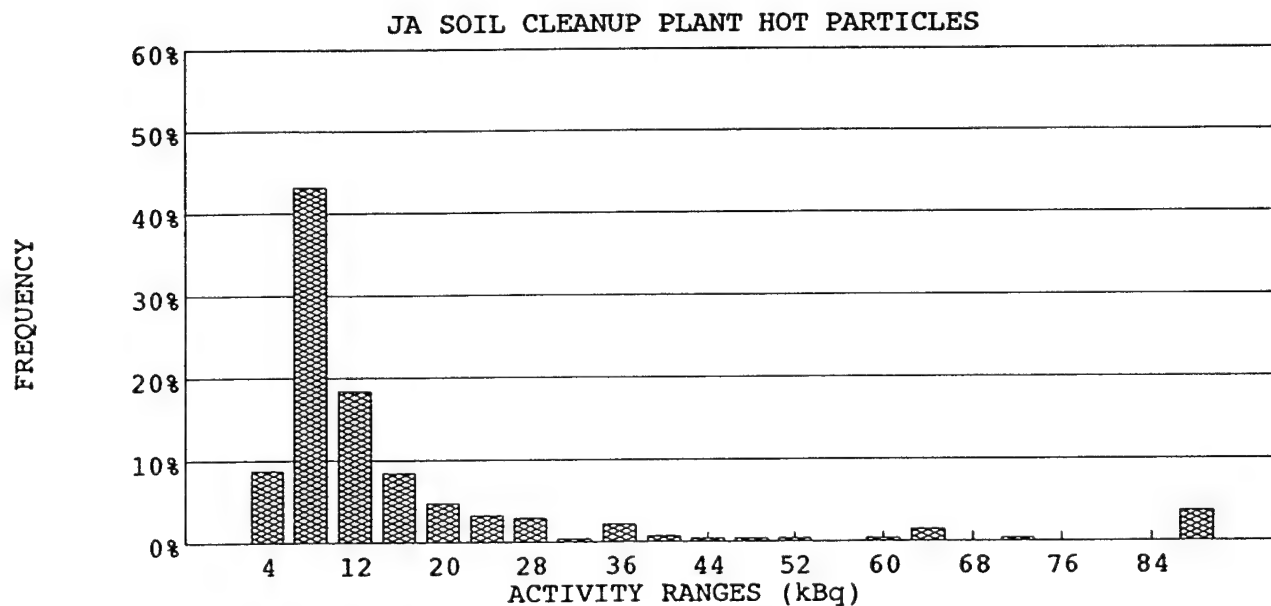
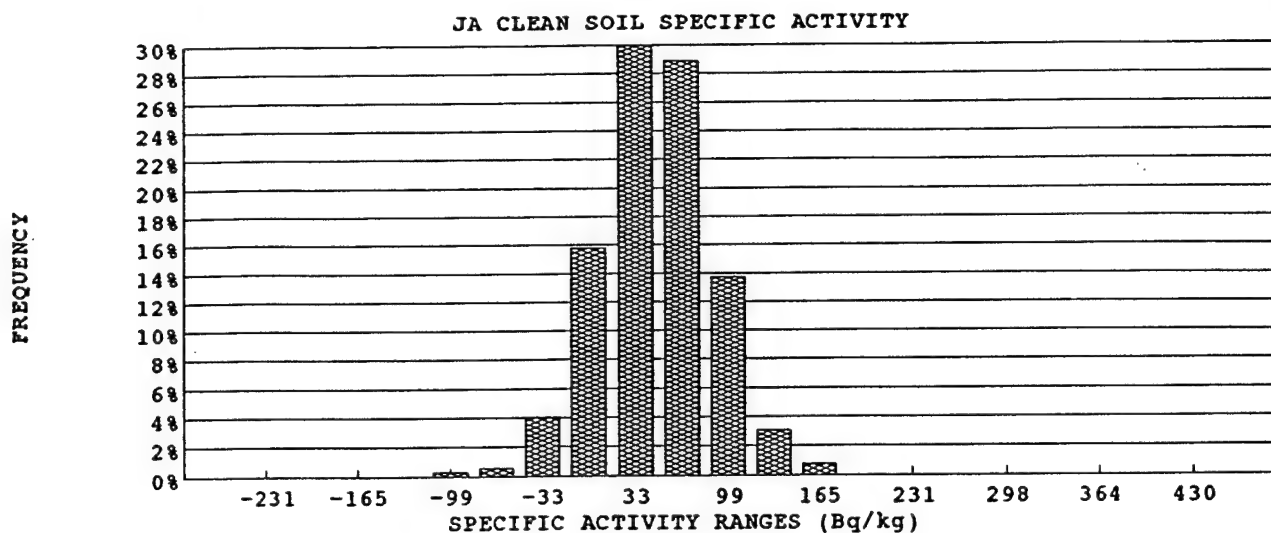
SORTER 1				27-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.70 ± 0.03 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		8.4 tons		91.8 tons		100.3 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		47.7 kg					
VOLUME IN-GROUND		6.7 yd³		72.8 yd³		79.5 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		91.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		69,821 kBq		18,373 kBq		23,884 kBq			
MAXIMUM/SORT		2,493 kBq		960 kBq		24 kBq			
MINIMUM/SORT		2 kBq		0 Bq		-9 kBq			
SPECIFIC ACTIVITY				2,175 Bq/kg		260 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,657		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				101		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				585		09:27 10:03			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				971		15:53			
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				2					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,570					
2-SEC RECORDS WITH SORTS				3,034					
2-SEC RECORDS WITHOUT SORTS				13,536					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,691					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		2,112	69.61%	5 DET		11	0.36%		
2 DET		687	22.64%	6 DET		0	0.00%		
3 DET		186	6.13%	7 DET		1	0.03%		
4 DET		38	1.25%	8 DET		1	0.03%		
AVERAGE TIME BETWEEN 2-SEC SORTS				15.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	61	4.0%	-14000	0	-231	0.0%	4	91	3.0%
2	221	14.4%	-12000	0	-198	0.0%	8	1,327	43.7%
3	249	16.2%	-10000	0	-165	0.0%	12	597	19.7%
4	275	17.9%	-8000	2	-132	0.1%	16	265	8.7%
5	290	18.9%	-6000	2	-99	0.1%	20	174	5.7%
6	192	12.5%	-4000	1	-66	0.1%	24	122	4.0%
7	190	12.4%	-2000	1	-33	0.1%	28	80	2.6%
8	60	3.9%	0	1	0	0.1%	32	52	1.7%
TOTAL	1,538		2000	3	33	0.2%	36	43	1.4%
			4000	9	66	0.6%	40	25	0.8%
2-GATE SORTS			6000	25	99	1.6%	44	34	1.1%
DET	SORTS	FREQ%	8000	43	132	2.8%	48	28	0.9%
9	158	10.6%	10000	103	165	6.6%	52	14	0.5%
10	238	15.9%	12000	172	198	11.0%	56	8	0.3%
11	261	17.4%	14000	207	231	13.3%	60	23	0.8%
12	286	19.1%	16000	251	264	16.1%	64	11	0.4%
13	251	16.8%	18000	268	298	17.2%	68	7	0.2%
14	173	11.6%	20000	226	331	14.5%	72	14	0.5%
15	129	8.6%	22000	157	364	10.1%	76	8	0.3%
TOTAL	1,496		24000	85	397	5.5%	80	7	0.2%
			26000	3	430	0.2%	84	2	0.1%
			>28000	0	0	0.0%	>84	102	3.4%
			TOTAL	1,559			TOTAL	3,034	
EVENT TYPES		HPE	2,960	MPE	511	DISE	7,694		



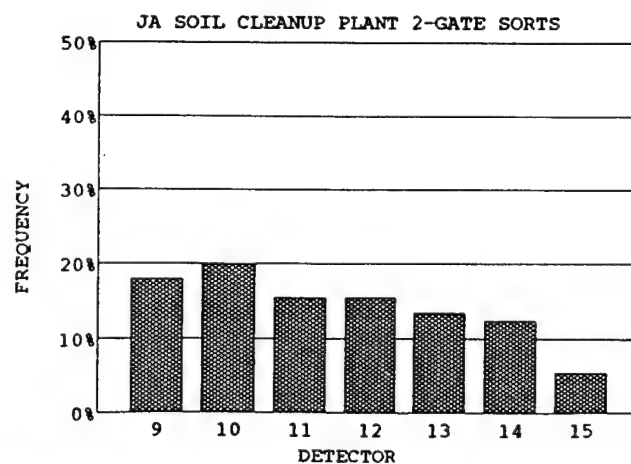
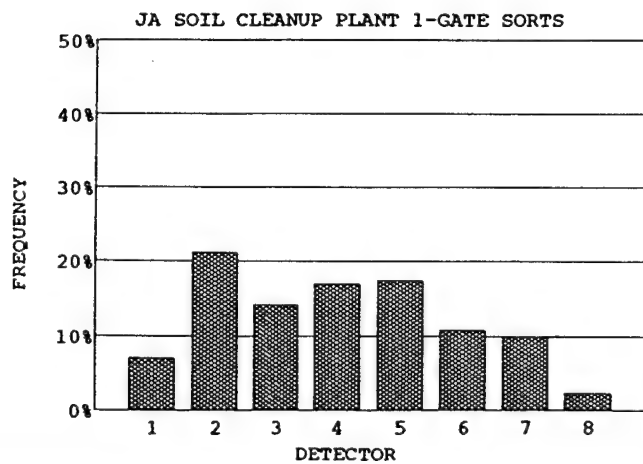
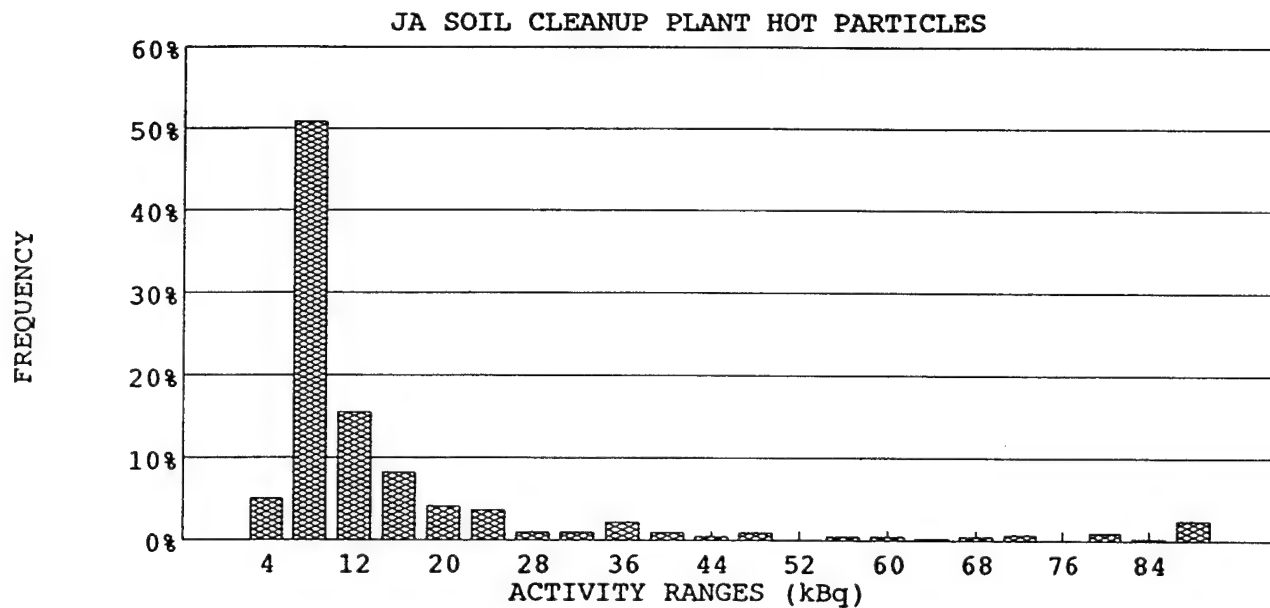
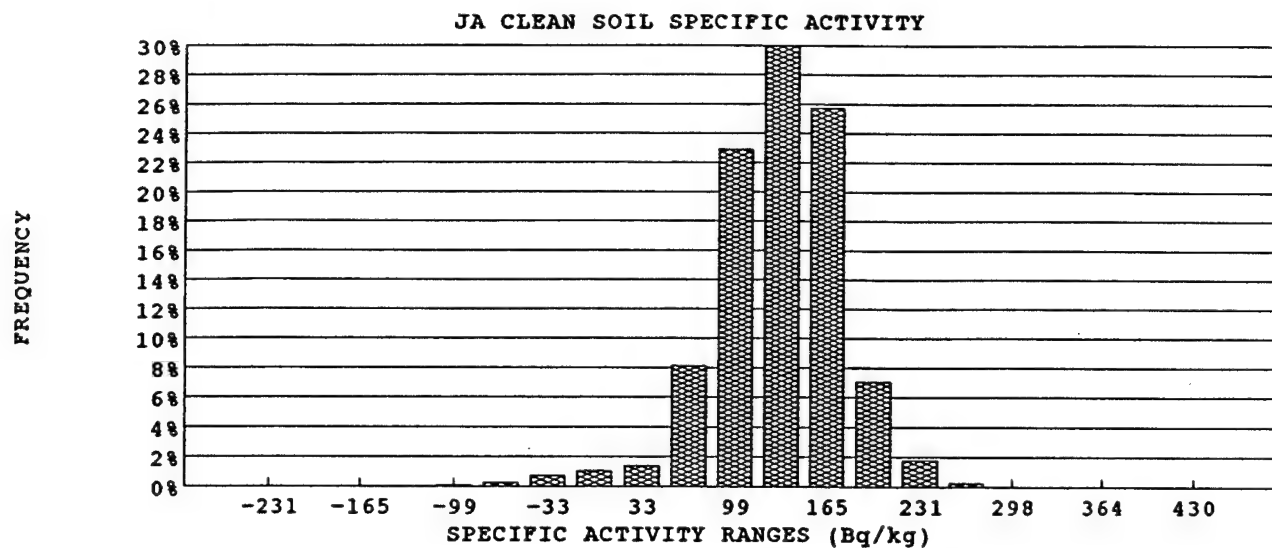
SORTER 2				27-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.56 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		38.8 tons		62.2 tons		101.1 tons			
MAXIMUM/SORT		60.5 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		53.0 kg					
VOLUME IN-GROUND		30.8 yd³		49.3 yd³		80.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		61.6%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
TOTAL		72,814 kBq		HOT 36,908 kBq		CLEAN 20,135 kBq			
MAXIMUM/SORT		4,590 kBq		2,127 kBq		26 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-6 kBq			
SPECIFIC ACTIVITY				950 Bq/kg		324 Bq/kg			
SORTS				1,672		UNEXP PAUSE			
20-SEC PROCESS PERIODS						TIME TIME			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				620		13:06 10:03			
NONE (AD=0 & MD=0 & MND>0)				413					
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				639					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,720					
2-SEC RECORDS WITH SORTS				3,003					
2-SEC RECORDS WITHOUT SORTS				13,717					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,675					
NONPROCESSING RECORDS (Test, calibration, etc)				2					
2-SEC SORT DETECTORS									
1 DET		2,130	70.93%	5 DET	10	0.33%			
2 DET		657	21.88%	6 DET	0	0.00%			
3 DET		165	5.49%	7 DET	0	0.00%			
4 DET		41	1.37%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				15.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	82	5.6%	-14000	0	-231	0.0%	4	106	3.5%
2	294	20.0%	-12000	0	-198	0.0%	8	1,348	44.9%
3	220	14.9%	-10000	1	-165	0.1%	12	570	19.0%
4	299	20.3%	-8000	0	-132	0.0%	16	276	9.2%
5	238	16.2%	-6000	1	-99	0.1%	20	149	5.0%
6	197	13.4%	-4000	6	-66	0.6%	24	105	3.5%
7	109	7.4%	-2000	2	-33	0.2%	28	60	2.0%
8	33	2.2%	0	1	0	0.1%	32	54	1.8%
TOTAL	1,472		2000	2	33	0.2%	36	40	1.3%
2-GATE SORTS			4000	0	66	0.0%	40	32	1.1%
			6000	6	99	0.6%	44	22	0.7%
DET	SORTS	FREQ%	8000	5	132	0.5%	48	23	0.8%
9	186	12.1%	10000	14	165	1.3%	52	24	0.8%
10	298	19.5%	12000	31	198	2.9%	56	30	1.0%
11	307	20.1%	14000	67	231	6.4%	60	15	0.5%
12	281	18.4%	16000	85	264	8.1%	64	13	0.4%
13	215	14.0%	18000	142	298	13.5%	68	8	0.3%
14	172	11.2%	20000	173	331	16.4%	72	10	0.3%
15	72	4.7%	22000	184	364	17.5%	76	8	0.3%
TOTAL	1,531		24000	236	397	22.4%	80	7	0.2%
			26000	98	430	9.3%	84	6	0.2%
			>28000	0	0	0.0%	>84	97	3.2%
			TOTAL	1,054			TOTAL	3,003	
EVENT TYPES		HPE	2,953	MPE	821	DISE	47,719		



SORTER 3				27-Oct-94				
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.55 ± 0.02 c/s		
SOIL				CONTAMINATED		CLEAN		
MASS TOTAL				0.2 tons		97.6 tons		
MAXIMUM/SORT				4.5 kg		60.5 kg		
MINIMUM/SORT				0.8 kg		56.0 kg		
VOLUME IN-GROUND				0.2 yd ³		77.4 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.8%		77.6 yd ³		
ACTIVITY				DISPERSED + PARTICLE				
				PARTICLE		HOT		
TOTAL				4,760 kBq		1,378 kBq		
MAXIMUM/SORT				412 kBq		242 kBq		
MINIMUM/SORT				3 kBq		0 Bq		
SPECIFIC ACTIVITY						5,796 Bq/kg		
SORTS						32 Bq/kg		
20-SEC PROCESS PERIODS				1,617		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME		
NONE (AD=0 & MD=0 & MND>0)				1,464		None 07:02		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				153		10:03		
UNEXPLAINED RECORDS				0				
0<AD<1kBq & MD>0				0				
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				16,170				
2-SEC RECORDS WITH SORTS				273				
2-SEC RECORDS WITHOUT SORTS				15,897				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,890				
NONPROCESSING RECORDS (Test, calibration, etc)				10				
2-SEC SORT DETECTORS								
1 DET		196 71.79%		5 DET		1 0.37%		
2 DET		59 21.61%		6 DET		0 0.00%		
3 DET		14 5.13%		7 DET		0 0.00%		
4 DET		3 1.10%		8 DET		0 0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				165.0 sec				
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS			ACT_ND		NUM		SPEC_A	
			(Bq)		FREQ%		FREQ%	
DET SORTS					ACT_P		NUM	
					(kBq)		(FREQ%)	
1 2			1.4%		-14000 0		-231 0.0%	
2 11			7.5%		-12000 0		-198 0.0%	
3 19			13.0%		-10000 0		-165 0.0%	
4 25			17.1%		-8000 0		-132 0.0%	
5 21			14.4%		-6000 5		-99 0.3%	
6 27			18.5%		-4000 9		-66 0.6%	
7 33			22.6%		-2000 66		-33 4.1%	
8 8			5.5%		0 257		0 15.8%	
TOTAL 146			2000 534		33 32.8%		36 6	
			4000 470		66 28.9%		40 2	
			6000 223		99 13.7%		44 1	
2-GATE SORTS			8000 50		132 3.1%		48 1	
DET SORTS			FREQ%					
9 6			4.7%		10000 13		165 0.8%	
10 8			6.3%		12000 0		198 0.0%	
11 9			7.1%		14000 0		231 0.0%	
12 26			20.5%		16000 0		264 0.0%	
13 23			18.1%		18000 0		298 0.0%	
14 31			24.4%		20000 0		331 0.0%	
15 24			18.9%		22000 0		364 0.0%	
TOTAL 127			24000 0		397 0.0%		80 0	
			26000 0		430 0.0%		84 0	
			>28000 0		0 0.0%		>84 10	
			TOTAL 1,627				TOTAL 273	
EVENT TYPES		HPE	268	MPE	44	DISE	0	



SORTER 4				27-Oct-94					
SORTER SOIL DENSITY			1.30 tons/m ³		BACKGROUND		2.30 ± 0.04 c/s		
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL				0.3 tons		99.5 tons		99.9 tons	
MAXIMUM/SORT				4.5 kg		60.5 kg			
MINIMUM/SORT				0.8 kg		56.0 kg			
VOLUME IN-GROUND				0.3 yd ³		78.9 yd ³		79.2 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.7%					
ACTIVITY				PARTICLE		HOT		CLEAN	
TOTAL				9,179 kBq		2,201 kBq		11,360 kBq	
MAXIMUM/SORT				1,507 kBq		656 kBq		16 kBq	
MINIMUM/SORT				3 kBq		0 Bq		-6 kBq	
SPECIFIC ACTIVITY						6,476 Bq/kg		114 Bq/kg	
SORTS									
20-SEC PROCESS PERIODS						1,651		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				1,434				06:59 10:03	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				217				09:39	
UNEXPLAINED RECORDS				0				11:19	
0<AD<1kBq & MD>0				6				11:22	
AD=0 & MD>0				0				14:57	
AD<0 & MD >0				0				15:16	
2-SEC COUNT PERIODS						16,510			
2-SEC RECORDS WITH SORTS				413					
2-SEC RECORDS WITHOUT SORTS				16,097					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)						2,064			
NONPROCESSING RECORDS (Test, calibration, etc)						4			
2-SEC SORT DETECTORS									
1 DET		307	74.33%	5 DET		0	0.00%		
2 DET		90	21.79%	6 DET		0	0.00%		
3 DET		15	3.63%	7 DET		0	0.00%		
4 DET		1	0.24%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				107.6 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	15	7.1%	-14000	0	-231	0.0%	4	21	5.1%
2	45	21.2%	-12000	0	-198	0.0%	8	210	50.8%
3	30	14.2%	-10000	0	-165	0.0%	12	64	15.5%
4	36	17.0%	-8000	0	-132	0.0%	16	34	8.2%
5	37	17.5%	-6000	1	-99	0.1%	20	17	4.1%
6	23	10.8%	-4000	4	-66	0.2%	24	15	3.6%
7	21	9.9%	-2000	12	-33	0.7%	28	4	1.0%
8	5	2.4%	0	17	0	1.0%	32	4	1.0%
TOTAL	212		2000	23	33	1.4%	36	9	2.2%
			4000	135	66	8.2%	40	4	1.0%
2-GATE SORTS			6000	379	99	22.9%	44	2	0.5%
DET	SORTS	FREQ%	8000	508	132	30.7%	48	4	1.0%
9	36	17.9%	10000	426	165	25.7%	52	0	0.0%
10	40	19.9%	12000	117	198	7.1%	56	2	0.5%
11	31	15.4%	14000	29	231	1.8%	60	2	0.5%
12	31	15.4%	16000	4	264	0.2%	64	1	0.2%
13	27	13.4%	18000	0	298	0.0%	68	2	0.5%
14	25	12.4%	20000	0	331	0.0%	72	3	0.7%
15	11	5.5%	22000	0	364	0.0%	76	0	0.0%
TOTAL	201		24000	0	397	0.0%	80	4	1.0%
			26000	0	430	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	10	2.4%
			TOTAL	1,655			TOTAL	413	
EVENT TYPES			HPE	418	MPE	30	DISE	0	



WORK HISTORY - JA SOIL CLEANUP PLANT

28-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:50 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

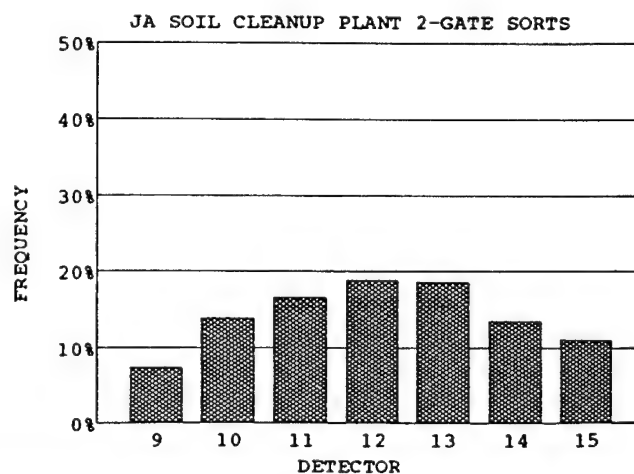
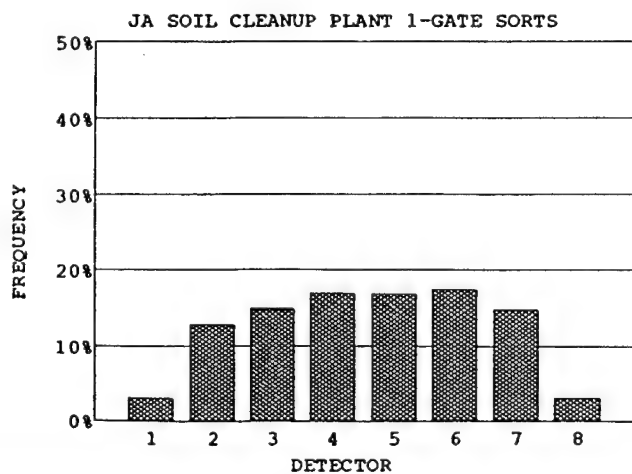
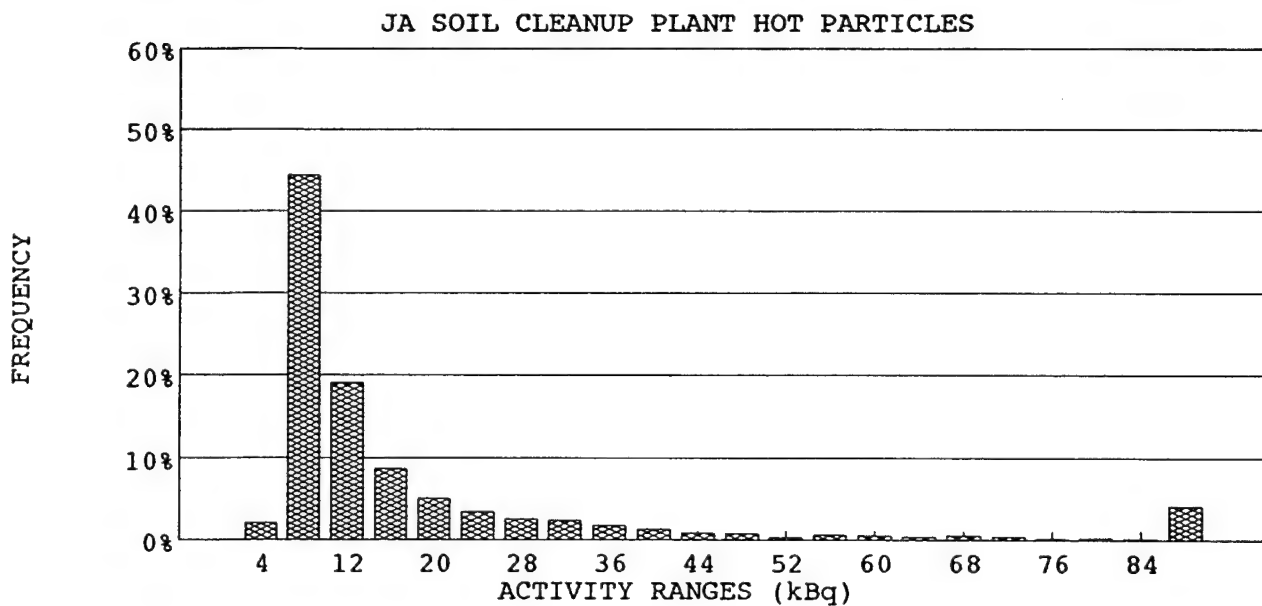
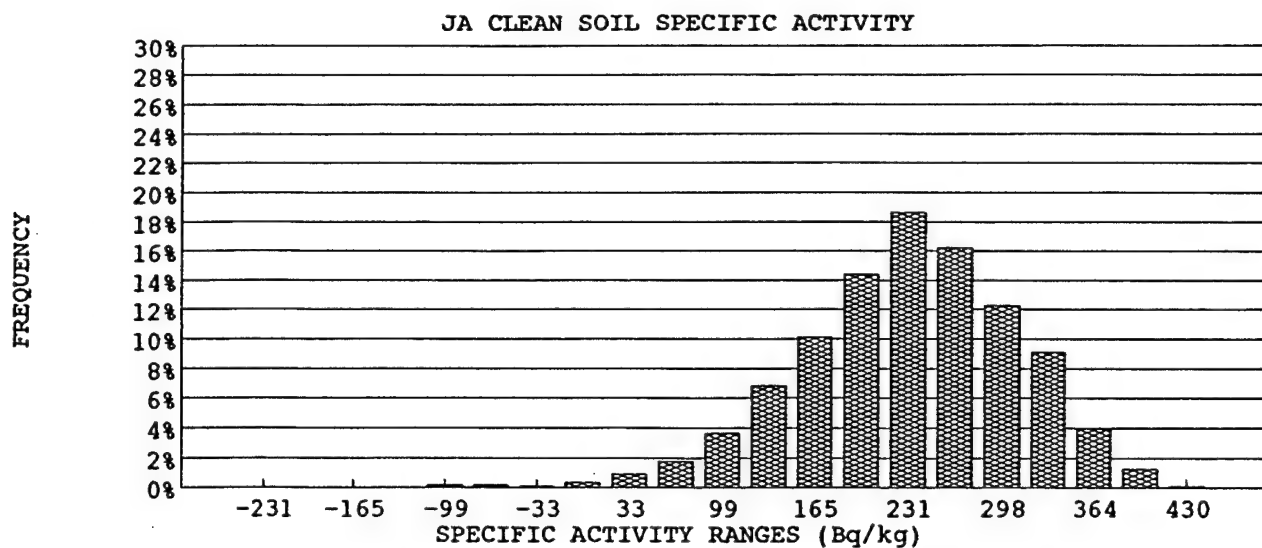
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.8 hr	10.8 hr	10.8 hr	10.8 hr	43.3 hr
SORTER AVAILABLE HOURS	10.7 hr	10.7 hr	3.2 hr	10.0 hr	34.5 hr
SORTER START-UP	06:10	06:10	06:20	06:20	
START SOIL PROCESSING	06:18	06:18	06:35	06:35	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.3 hr	0.3 hr	0.8 hr
SORTER SHUT-DOWN	16:50	16:50	09:30	16:20	
END SOIL PROCESSING	16:37	16:38	09:19	16:10	
TIME REQUIRED TO SHUT DOWN	0.2 hr	0.2 hr	0.2 hr	0.2 hr	0.7 hr
ACTUAL PROCESS HOURS	9.9 hr	9.9 hr	1.7 hr	9.4 hr	30.9 hr
DOWN-TIME	0.7 hr	0.7 hr	1.5 hr	0.6 hr	3.6 hr
SYSTEM PAUSE	0.4 hr	0.4 hr	1.1 hr	0.0 hr	1.9 hr
SORTER NONAVAILABLE TIME	0.2 hr	0.2 hr	7.7 hr	0.8 hr	8.8 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					89.7%
PRODUCTIVITY					71.4%

PRODUCTIVITY

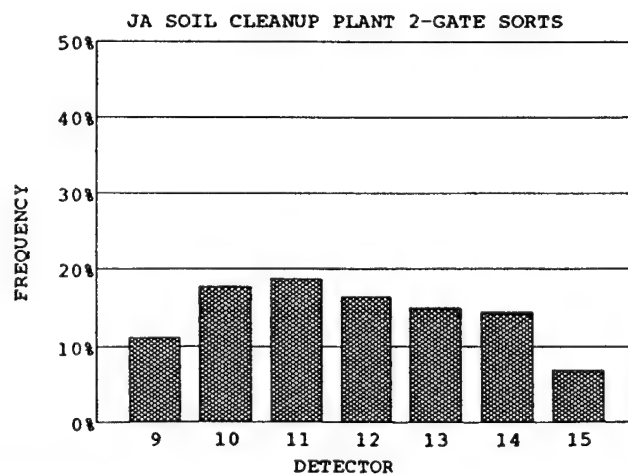
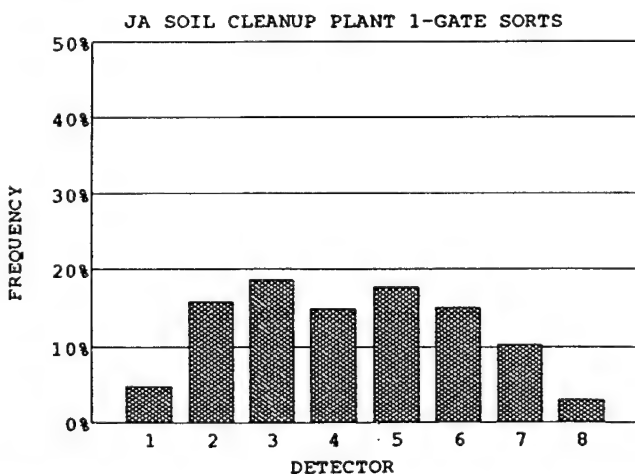
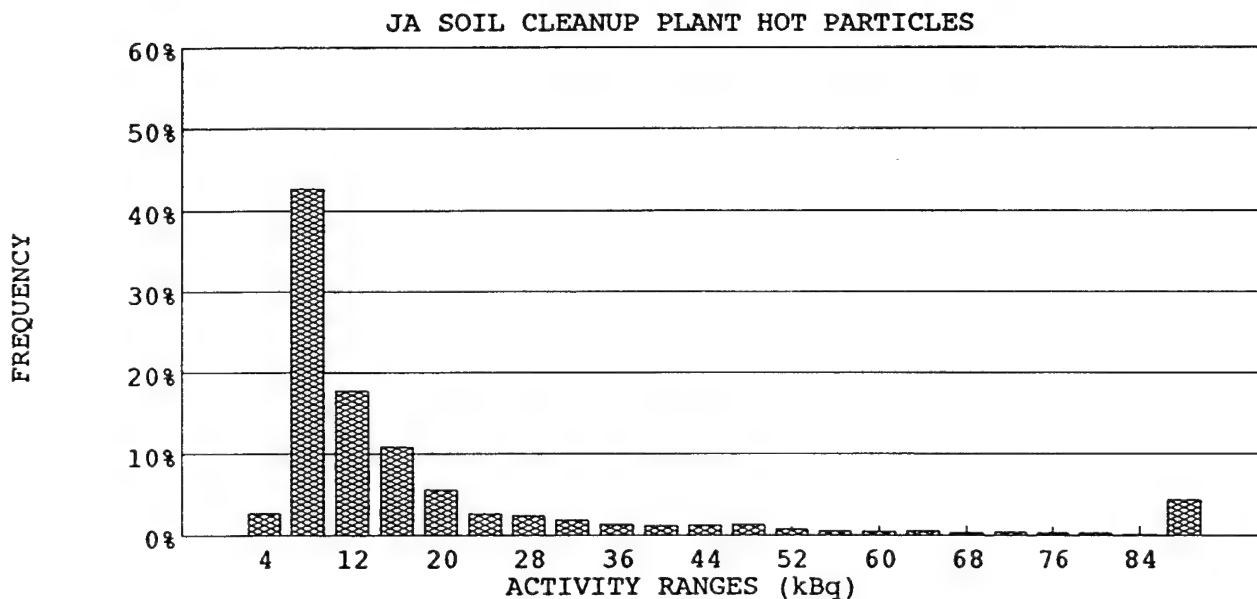
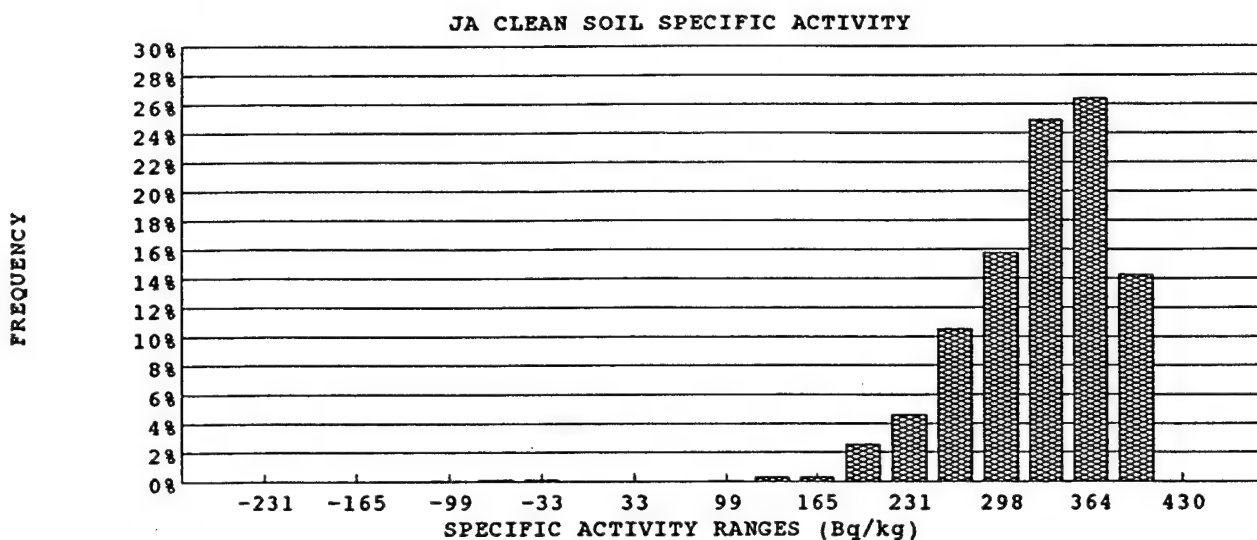
Date	28-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	347	Excused delays for contract (sorter-hrs)	7,235 hr
Current Contract week	58	Excused delay days (plant-days)	181 days
		Excused delay months (plant-month)	6.96 months
Soil production for Day	337 MT		
Cumulative Soil Production for Week	1,634 MT	Percent of contract completed	60.0%
Total Soil production for contract		Tons Ahead or Behind Schedule	2,029 MT
Since 6 Sep 93	58,435 MT	Days ahead or behind schedule	6.4 days
Since 6 Aug 93	60,026 MT		
Total Soil production for project	86,313 MT		

MT = metric tons

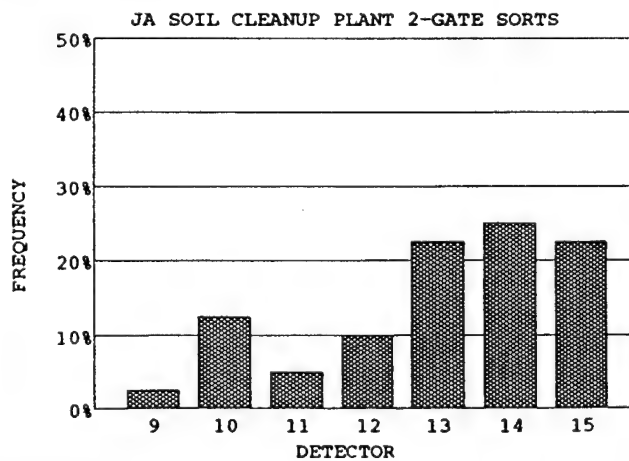
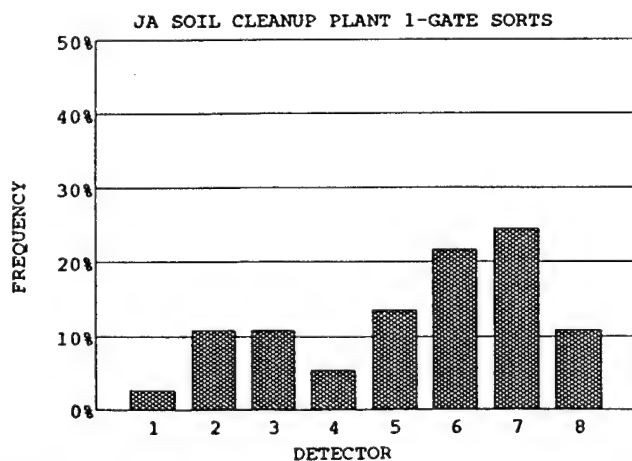
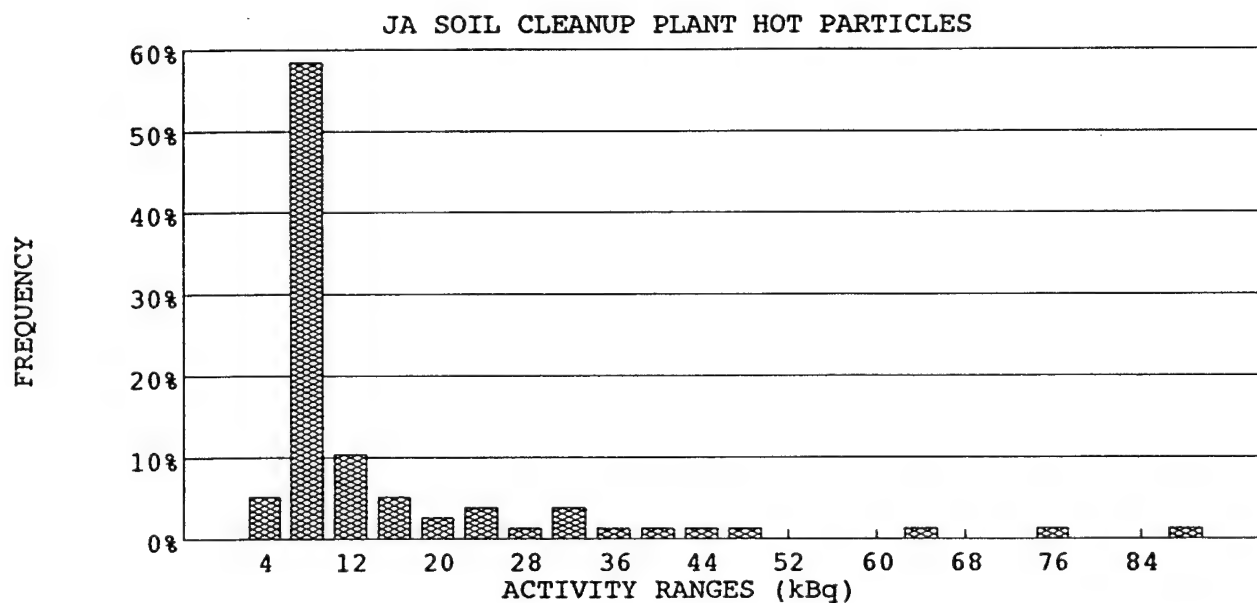
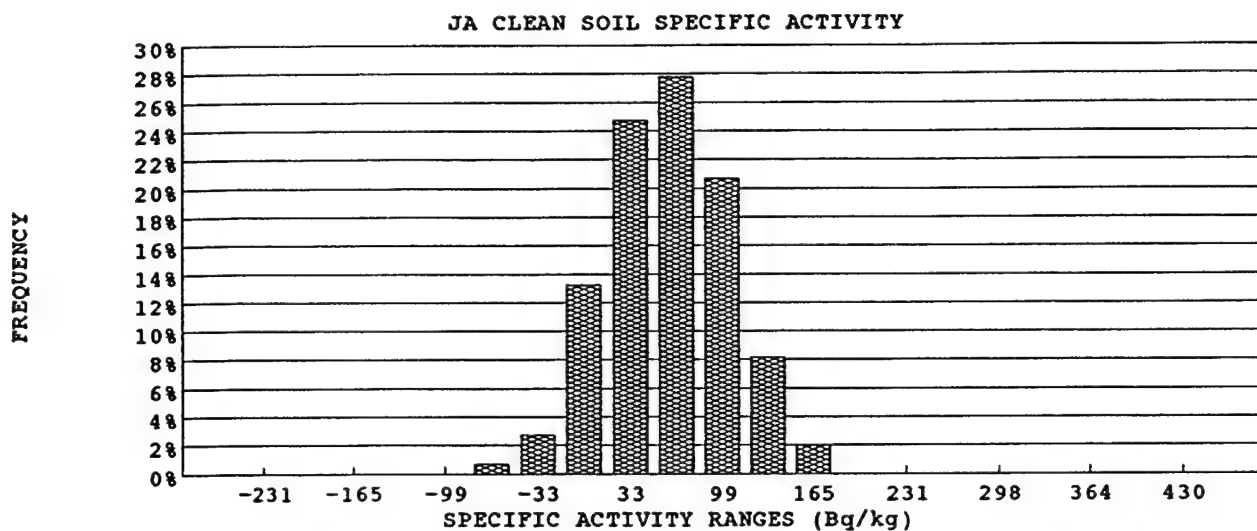
SORTER 1				28-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		0.67 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		3.4 tons		104.7 tons		108.1 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		50.7 kg					
VOLUME IN-GROUND		2.7 yd³		83.0 yd³		85.7 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		96.9%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		53,393 kBq		12,465 kBq		23,082 kBq			
MAXIMUM/SORT		994 kBq		332 kBq		24 kBq			
MINIMUM/SORT		3 kBq		(482)Bq		-7 kBq			
SPECIFIC ACTIVITY				3,679 Bq/kg		220 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,786		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				21		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				764		06:18 06:18			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				1,001		07:25			
UNEXPLAINED RECORDS				0		08:15			
0<AD<1kBq & MD>0				4		09:07			
AD=0 & MD>0				0		15:09			
AD<0 & MD >0				1					
2-SEC COUNT PERIODS				17,860					
2-SEC RECORDS WITH SORTS				2,428					
2-SEC RECORDS WITHOUT SORTS				15,432					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,214					
NONPROCESSING RECORDS (Test, calibration, etc)				6					
2-SEC SORT DETECTORS									
1 DET		1,751	72.12%	5 DET	6	0.25%			
2 DET		539	22.20%	6 DET	0	0.00%			
3 DET		109	4.49%	7 DET	0	0.00%			
4 DET		23	0.95%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				20.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	38	3.1%	-14000	0	-231	0.0%	4	51	2.1%
2	159	12.9%	-12000	0	-198	0.0%	8	1,078	44.4%
3	185	15.0%	-10000	0	-165	0.0%	12	462	19.0%
4	208	16.9%	-8000	0	-132	0.0%	16	211	8.7%
5	207	16.8%	-6000	3	-99	0.2%	20	123	5.1%
6	215	17.4%	-4000	3	-66	0.2%	24	84	3.5%
7	183	14.8%	-2000	2	-33	0.1%	28	61	2.5%
8	38	3.1%	0	6	0	0.3%	32	58	2.4%
TOTAL	1,233		2000	16	33	0.9%	36	43	1.8%
			4000	31	66	1.8%	40	33	1.4%
2-GATE SORTS			6000	65	99	3.7%	44	21	0.9%
DET	SORTS	FREQ%	8000	121	132	6.8%	48	19	0.8%
9	88	7.4%	10000	179	165	10.1%	52	8	0.3%
10	167	14.0%	12000	255	198	14.4%	56	16	0.7%
11	198	16.6%	14000	330	231	18.6%	60	13	0.5%
12	225	18.8%	16000	287	264	16.2%	64	9	0.4%
13	222	18.6%	18000	217	298	12.3%	68	13	0.5%
14	162	13.6%	20000	161	331	9.1%	72	10	0.4%
15	133	11.1%	22000	71	364	4.0%	76	4	0.2%
TOTAL	1,195		24000	22	397	1.2%	80	6	0.2%
			26000	2	430	0.1%	84	3	0.1%
			>28000	0	0	0.0%	>84	102	4.2%
			TOTAL	1,771			TOTAL	2,428	
EVENT TYPES		HPE	2,425	MPE	412	DISE	1,634		



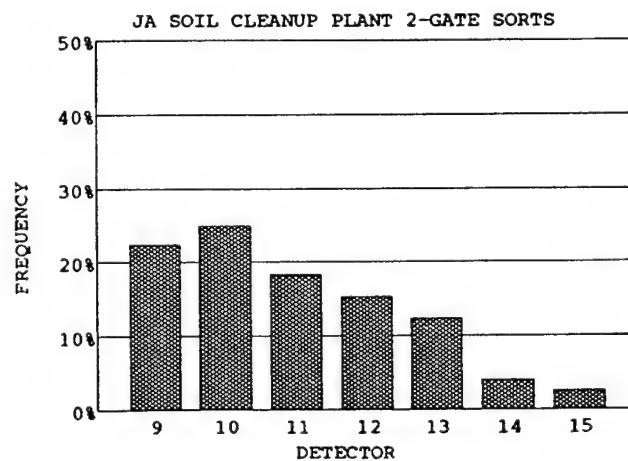
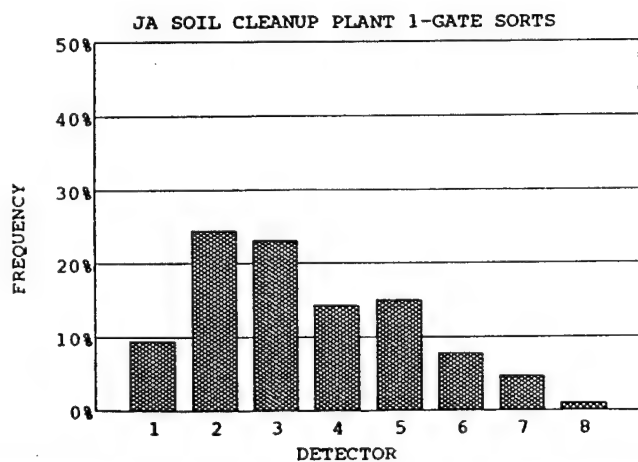
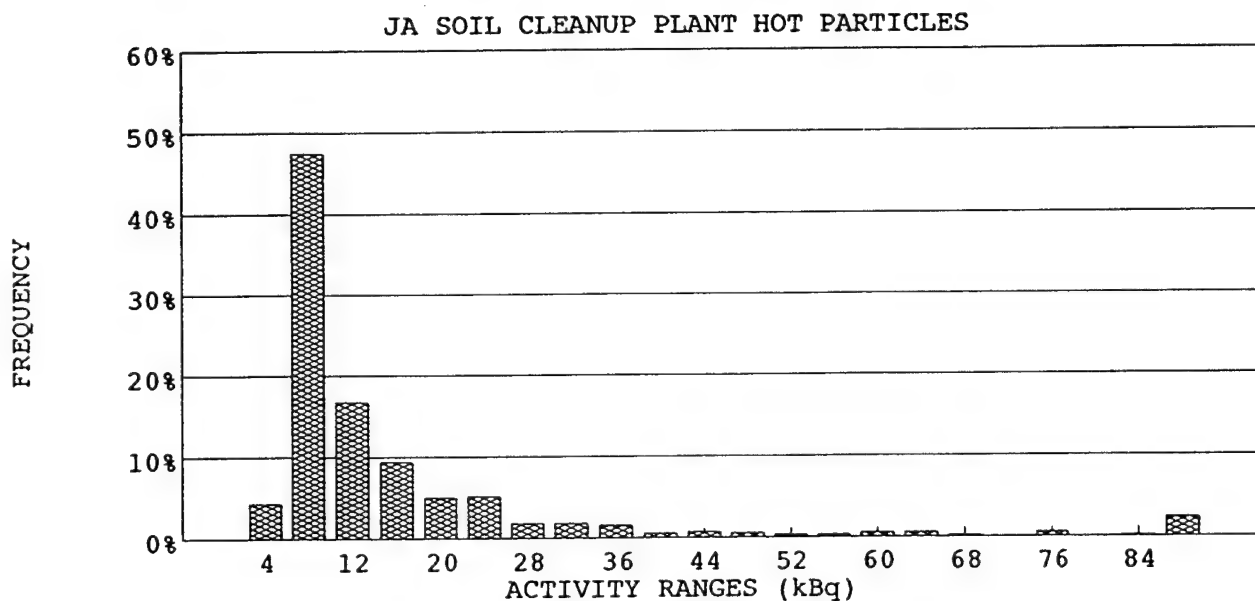
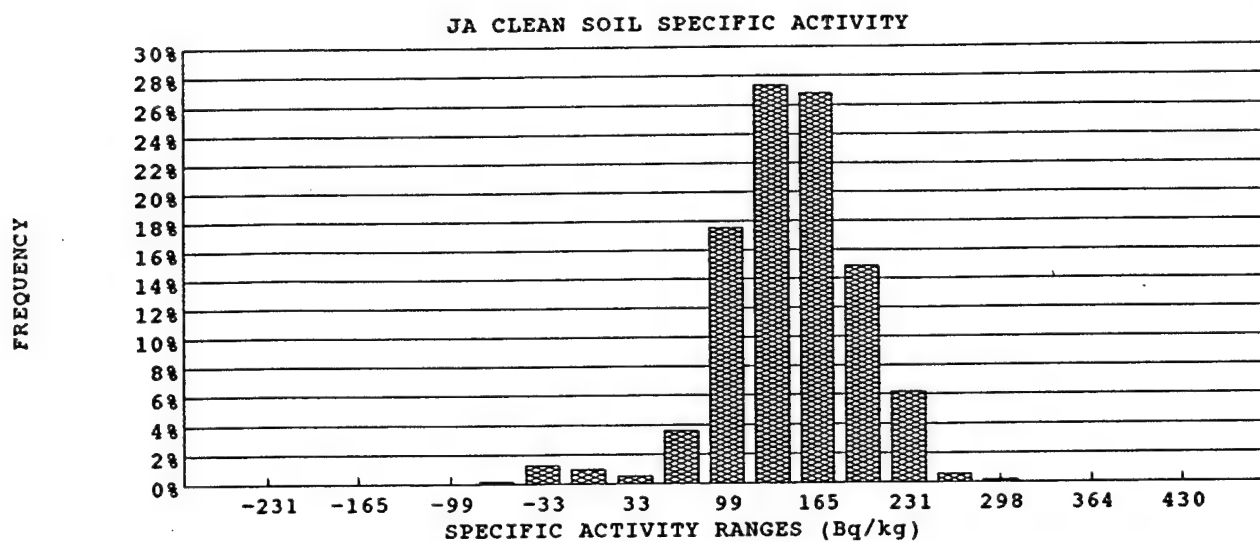
SORTER 2				28-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.46 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		36.7 tons		71.7 tons		108.3 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		51.5 kg					
VOLUME IN-GROUND		29.1 yd ³		56.8 yd ³		85.9 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		66.2%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		71,803 kBq		35,382 kBq		22,842 kBq			
MAXIMUM/SORT		2,167 kBq		802 kBq		24 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				965 Bq/kg		319 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,790		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				572		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				336		07:15 06:19			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				882					
UNEXPLAINED RECORDS				0					
0<AD<1kBq & MD>0				1					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				17,900					
2-SEC RECORDS WITH SORTS				3,012					
2-SEC RECORDS WITHOUT SORTS				14,888					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,802					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		2,139	71.02%	5 DET		7	0.23%		
2 DET		695	23.07%	6 DET		0	0.00%		
3 DET		146	4.85%	7 DET		0	0.00%		
4 DET		25	0.83%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				16.7 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	74	4.9%	-14000	0	-231	0.0%	4	82	2.7%
2	239	15.8%	-12000	0	-198	0.0%	8	1,286	42.7%
3	282	18.6%	-10000	0	-165	0.0%	12	534	17.7%
4	225	14.8%	-8000	0	-132	0.0%	16	327	10.9%
5	268	17.7%	-6000	1	-99	0.1%	20	169	5.6%
6	227	15.0%	-4000	2	-66	0.2%	24	79	2.6%
7	156	10.3%	-2000	2	-33	0.2%	28	73	2.4%
8	46	3.0%	0	0	0	0.0%	32	58	1.9%
TOTAL	1,517		2000	0	33	0.0%	36	40	1.3%
			4000	0	66	0.0%	40	36	1.2%
2-GATE SORTS			6000	1	99	0.1%	44	37	1.2%
DET	SORTS	FREQ%	8000	4	132	0.3%	48	39	1.3%
9	166	11.1%	10000	4	165	0.3%	52	24	0.8%
10	264	17.7%	12000	31	198	2.5%	56	17	0.6%
11	279	18.7%	14000	56	231	4.6%	60	15	0.5%
12	244	16.3%	16000	128	264	10.5%	64	18	0.6%
13	223	14.9%	18000	192	298	15.7%	68	11	0.4%
14	216	14.4%	20000	304	331	24.9%	72	13	0.4%
15	103	6.9%	22000	322	364	26.4%	76	9	0.3%
TOTAL	1,495		24000	174	397	14.3%	80	9	0.3%
			26000	0	430	0.0%	84	4	0.1%
			>28000	0	0	0.0%	>84	132	4.4%
			TOTAL	1,221			TOTAL	3,012	
EVENT TYPES		HPE	2,975	MPE	1,460	DISE	44,030		



SORTER 3				28-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.56 ± 0.02 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.4 tons		17.8 tons		18.2 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		57.5 kg					
VOLUME IN-GROUND		0.3 yd ³		14.1 yd ³		14.4 yd ³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		97.6%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		1,040 kBq		294 kBq		762 kBq			
MAXIMUM/SORT		117 kBq		59 kBq		9 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-5 kBq			
SPECIFIC ACTIVITY				665 Bq/kg		43 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				301		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				6		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				255		06:57 06:48			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				40		07:49 06:52			
UNEXPLAINED RECORDS				0		09:18 07:02			
0<AD<1kBq & MD>0				0		09:19 07:45			
AD=0 & MD>0				2		08:29			
AD<0 & MD >0				0		09:18			
2-SEC COUNT PERIODS				3,010					
2-SEC RECORDS WITH SORTS				77					
2-SEC RECORDS WITHOUT SORTS				2,933					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				378					
NONPROCESSING RECORDS (Test, calibration, etc)				0					
2-SEC SORT DETECTORS									
1 DET		52	67.53%	5 DET	1	1.30%			
2 DET		15	19.48%	6 DET	0	0.00%			
3 DET		6	7.79%	7 DET	0	0.00%			
4 DET		3	3.90%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				115.8 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	1	2.7%	-14000	0	-231	0.0%	4	4	5.2%
2	4	10.8%	-12000	0	-198	0.0%	8	45	58.4%
3	4	10.8%	-10000	0	-165	0.0%	12	8	10.4%
4	2	5.4%	-8000	0	-132	0.0%	16	4	5.2%
5	5	13.5%	-6000	0	-99	0.0%	20	2	2.6%
6	8	21.6%	-4000	2	-66	0.7%	24	3	3.9%
7	9	24.3%	-2000	8	-33	2.7%	28	1	1.3%
8	4	10.8%	0	39	0	13.2%	32	3	3.9%
TOTAL	37		2000	73	33	24.7%	36	1	1.3%
2-GATE SORTS			4000	82	66	27.8%	40	1	1.3%
DET	SORTS	FREQ%	6000	61	99	20.7%	44	1	1.3%
9	1	2.5%	8000	24	132	8.1%	48	1	1.3%
10	5	12.5%	10000	6	165	2.0%	52	0	0.0%
11	2	5.0%	12000	0	198	0.0%	56	0	0.0%
12	4	10.0%	14000	0	231	0.0%	60	0	0.0%
13	9	22.5%	16000	0	264	0.0%	64	1	1.3%
14	10	25.0%	18000	0	298	0.0%	68	0	0.0%
15	9	22.5%	20000	0	331	0.0%	72	0	0.0%
TOTAL	40		22000	0	364	0.0%	76	1	1.3%
			24000	0	397	0.0%	80	0	0.0%
			26000	0	430	0.0%	84	0	0.0%
			>28000	0	0	0.0%	>84	1	1.3%
			TOTAL	295			TOTAL	77	
EVENT TYPES		HPE	80	MPE	4	DISE	498		



SORTER 4				28-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.28 ± 0.03 c/s			
SOIL				CONTAMINATED		CLEAN		TOTAL	
MASS TOTAL		0.5 tons		101.9 tons		102.4 tons			
MAXIMUM/SORT		8.3 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		52.2 kg					
VOLUME IN-GROUND		0.4 yd³		80.8 yd³		81.2 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.5%					
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		8,041 kBq		2,272 kBq		13,618 kBq			
MAXIMUM/SORT		135 kBq		129 kBq		18 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-3 kBq			
SPECIFIC ACTIVITY				4,591 Bq/kg		134 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,693		UNEXP		PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME		TIME	
NONE (AD=0 & MD=0 & MND>0)				1,394		12:38		None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				299		14:23			
UNEXPLAINED RECORDS				0		15:10			
0<AD<1kBq & MD>0				3					
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				16,930					
2-SEC RECORDS WITH SORTS				562					
2-SEC RECORDS WITHOUT SORTS				16,368					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				2,255					
NONPROCESSING RECORDS (Test, calibration, etc)				39					
2-SEC SORT DETECTORS									
1 DET		418	74.38%	5 DET		0	0.00%		
2 DET		127	22.60%	6 DET		0	0.00%		
3 DET		16	2.85%	7 DET		0	0.00%		
4 DET		1	0.18%	8 DET		0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				81.0 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	28	9.5%	-14000	0	-231	0.0%	4	24	4.3%
2	72	24.5%	-12000	0	-198	0.0%	8	267	47.5%
3	68	23.1%	-10000	0	-165	0.0%	12	94	16.7%
4	42	14.3%	-8000	0	-132	0.0%	16	53	9.4%
5	44	15.0%	-6000	0	-99	0.0%	20	28	5.0%
6	23	7.8%	-4000	3	-66	0.2%	24	29	5.2%
7	14	4.8%	-2000	22	-33	1.3%	28	10	1.8%
8	3	1.0%	0	17	0	1.0%	32	10	1.8%
TOTAL	294		2000	9	33	0.5%	36	9	1.6%
			4000	62	66	3.6%	40	3	0.5%
2-GATE SORTS			6000	304	99	17.6%	44	4	0.7%
DET	SORTS	FREQ%	8000	474	132	27.4%	48	3	0.5%
9	60	22.4%	10000	464	165	26.8%	52	2	0.4%
10	67	25.0%	12000	257	198	14.8%	56	2	0.4%
11	49	18.3%	14000	107	231	6.2%	60	3	0.5%
12	41	15.3%	16000	10	264	0.6%	64	3	0.5%
13	33	12.3%	18000	3	298	0.2%	68	1	0.2%
14	11	4.1%	20000	0	331	0.0%	72	0	0.0%
15	7	2.6%	22000	0	364	0.0%	76	3	0.5%
TOTAL	268		24000	0	397	0.0%	80	0	0.0%
			26000	0	430	0.0%	84	1	0.2%
			>28000	0	0	0.0%	>84	13	2.3%
			TOTAL	1,732			TOTAL	562	
EVENT TYPES		HPE	562	MPE	90	DISE	0		



WORK HISTORY - JA SOIL CLEANUP PLANT

29-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

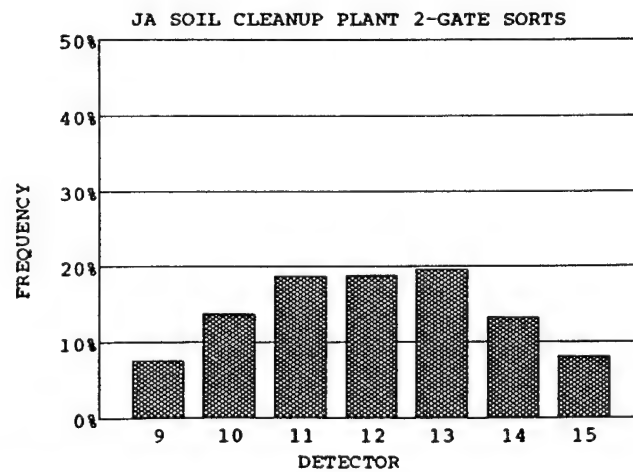
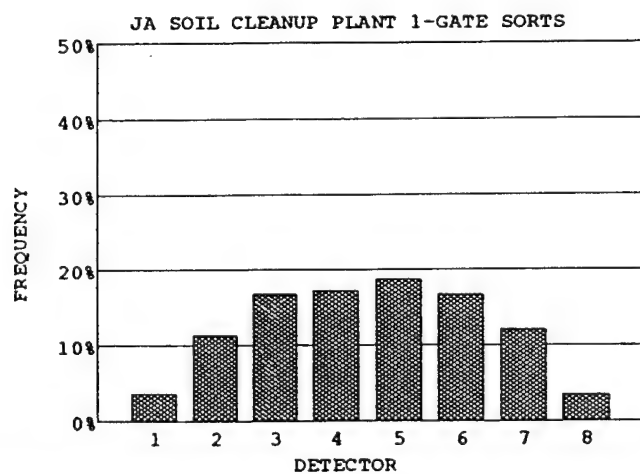
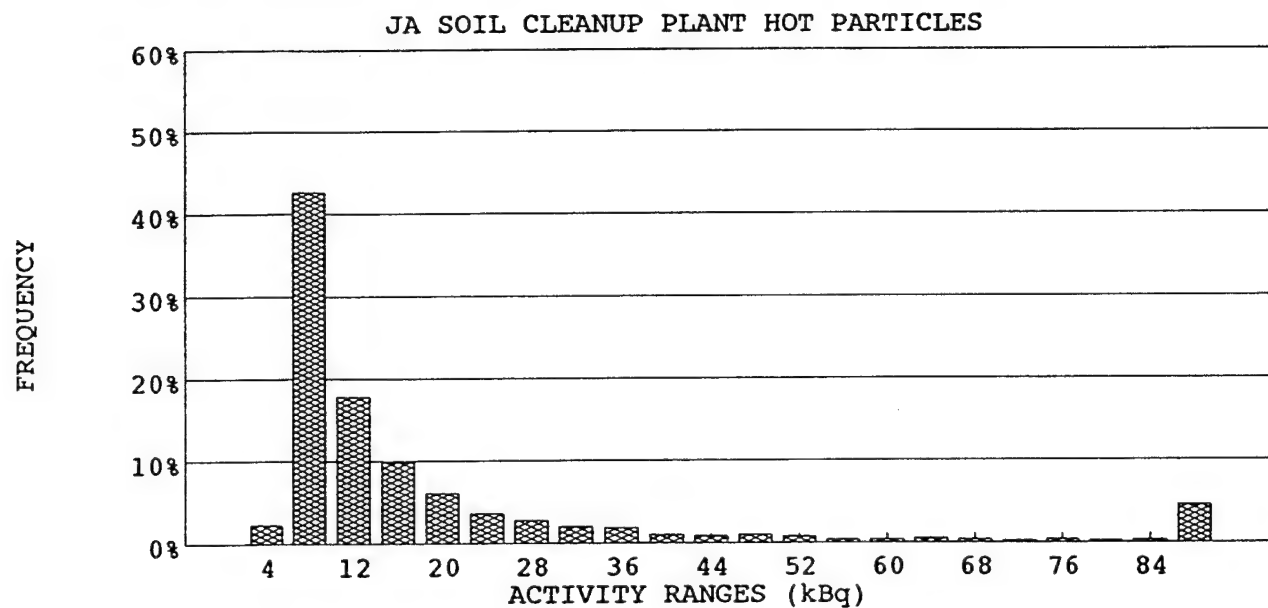
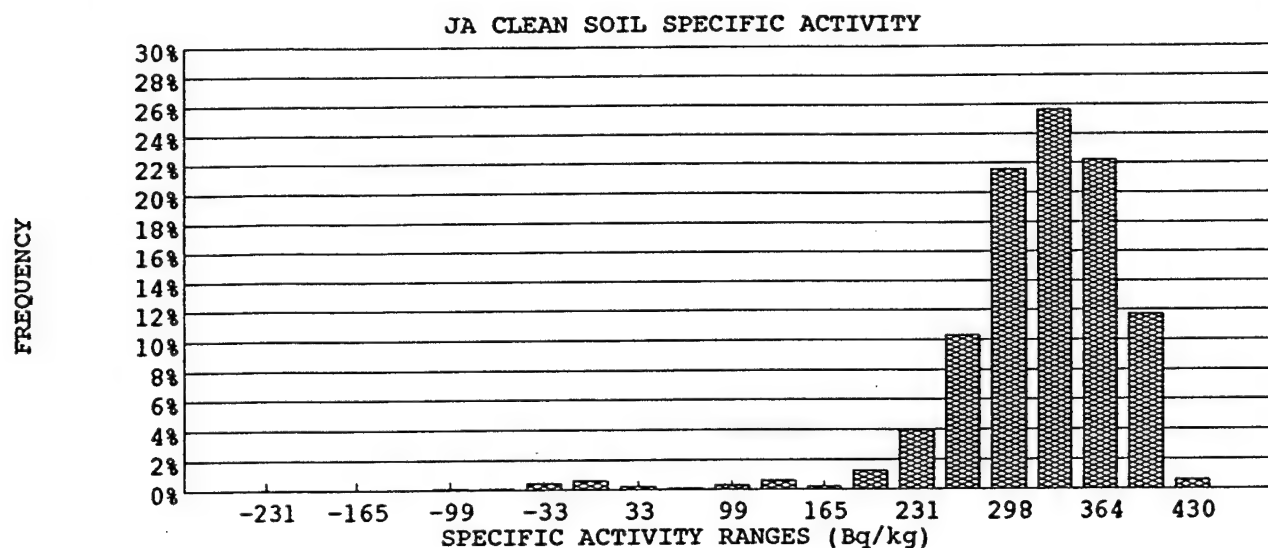
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	7.0 hr	7.0 hr	7.2 hr	7.2 hr	28.4 hr
SORTER START-UP	06:30	06:30	06:19	06:19	
START SOIL PROCESSING	06:35	06:35	06:40	06:43	
TIME REQUIRED TO START-UP	0.1 hr	0.1 hr	0.4 hr	0.4 hr	0.9 hr
SORTER SHUT-DOWN	13:30	13:30	13:30	13:30	
END SOIL PROCESSING	13:13	13:18	12:59	12:55	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.2 hr	0.5 hr	0.6 hr	1.6 hr
ACTUAL PROCESS HOURS	6.3 hr	6.5 hr	6.3 hr	6.2 hr	25.3 hr
DOWN-TIME	0.7 hr	0.5 hr	0.9 hr	1.0 hr	3.1 hr
SYSTEM PAUSE	0.3 hr	0.3 hr	0.0 hr	0.0 hr	0.6 hr
SORTER NONAVAILABLE TIME	3.5 hr	3.5 hr	3.3 hr	3.3 hr	13.6 hr
AUTHORIZED DELAY TIME	0.0 hr	0.0 hr	0.0 hr	0.0 hr	0.0 hr
PLANT PERFORMANCE					89.2%
PRODUCTIVITY					60.2%

PRODUCTIVITY

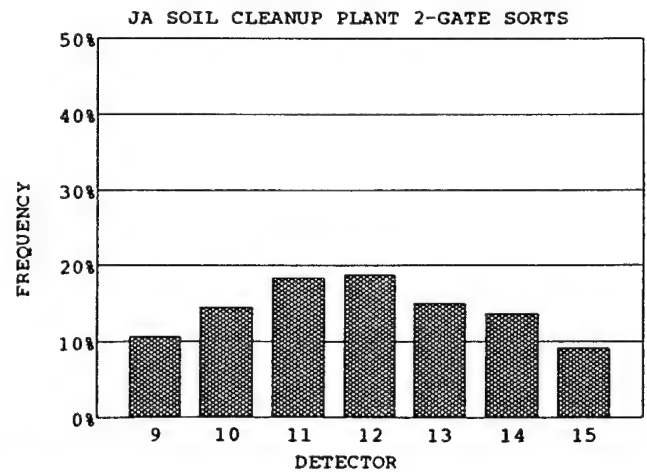
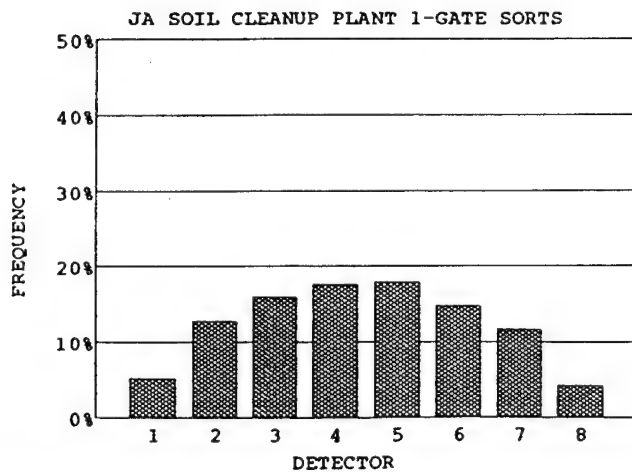
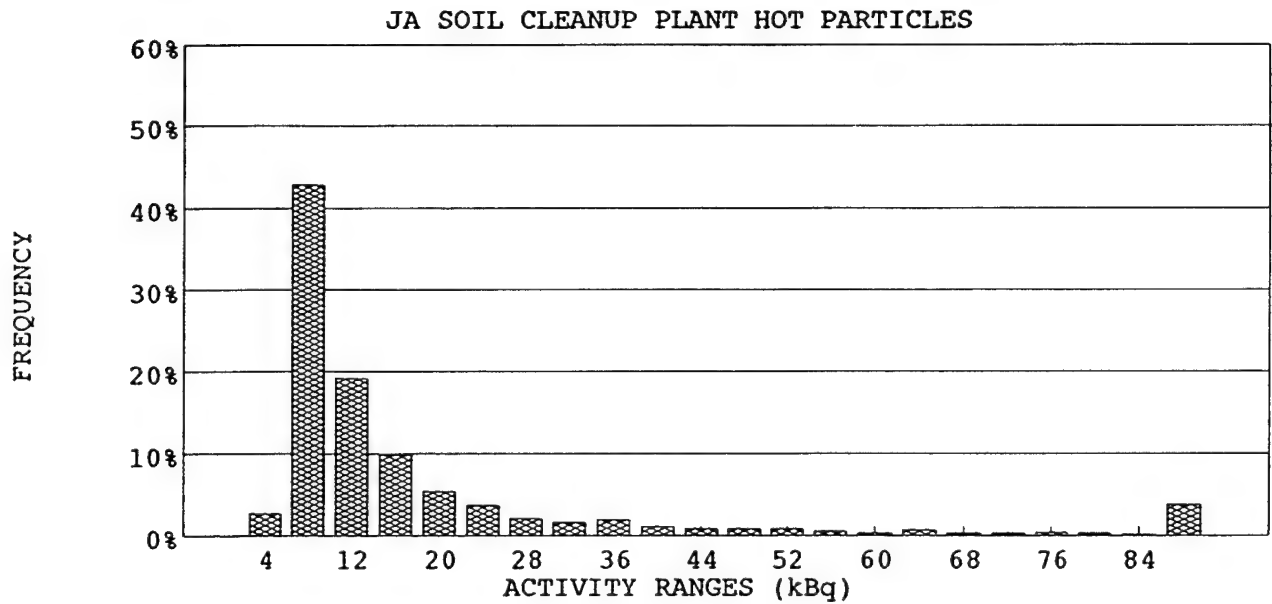
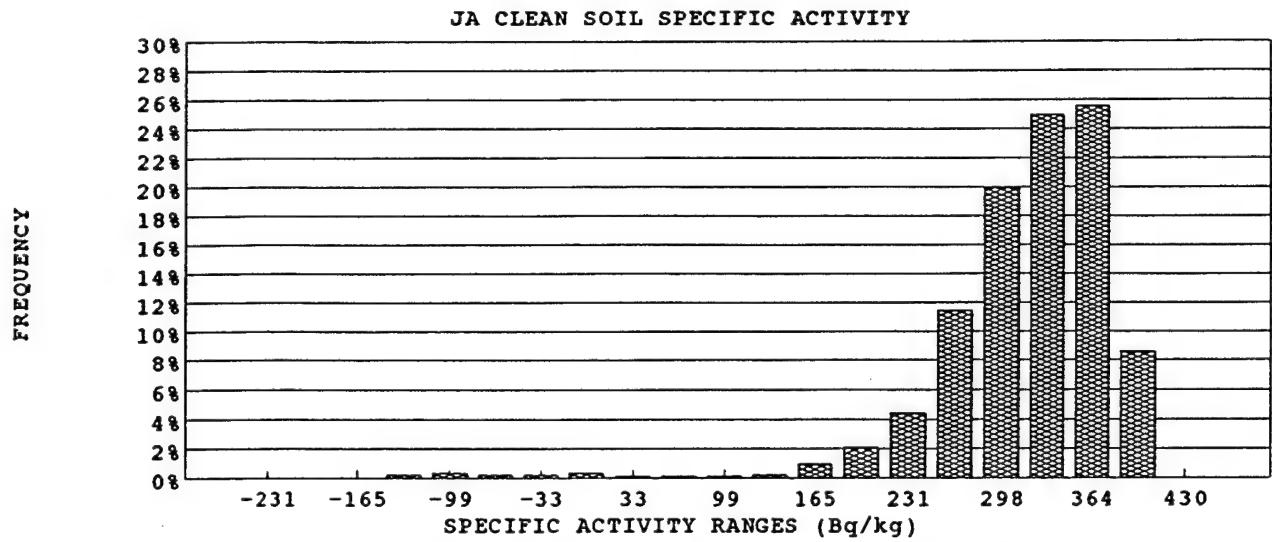
Date	29-Oct-94	Excused Delays for day (sorter-hrs)	0 hr
Contract day (from 6 Sep)	348	Excused delays for contract (sorter-hrs)	7,235 hr
Current Contract week	58	Excused delay days (plant-days)	181 days
		Excused delay months (plant-month)	6.96 months
Soil production for Day	276 MT		
Cumulative Soil Production for Week	1,910 MT	Percent of contract completed	60.3%
Total Soil production for contract		Tons Ahead or Behind Schedule	1,988 MT
Since 6 Sep 93	58,711 MT	Days ahead or behind schedule	6.3 days
Since 6 Aug 93	60,302 MT		
Total Soil production for project	86,589 MT		

MT = metric tons

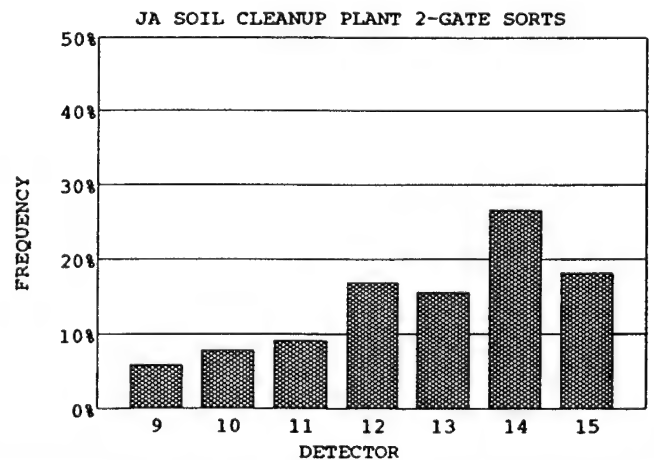
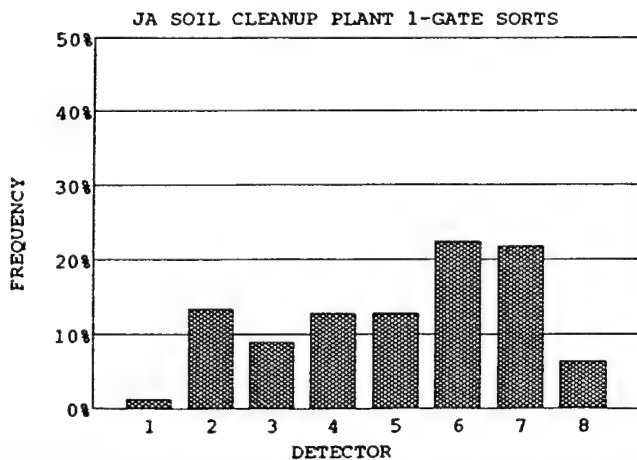
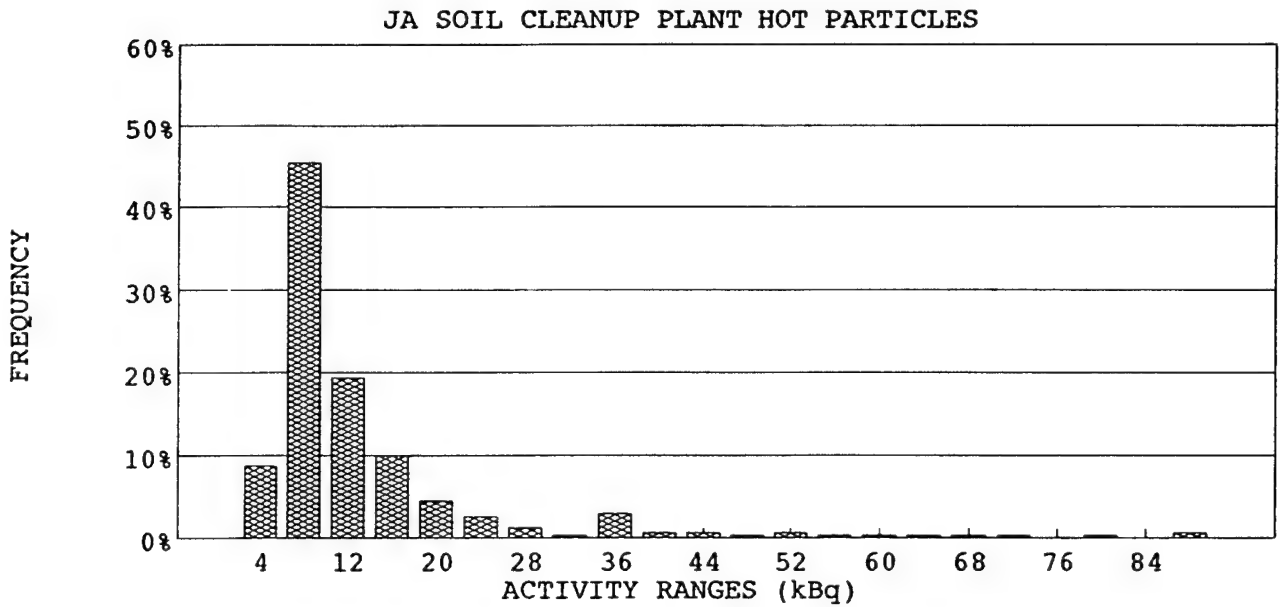
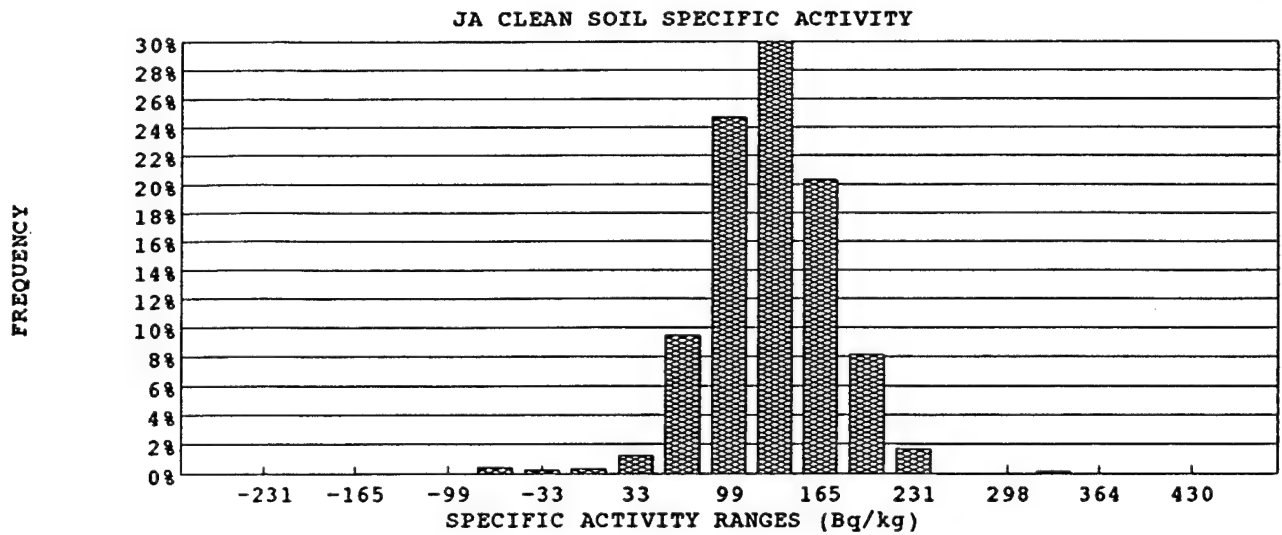
SORTER 1				29-Oct-94				
SORTER SOIL DENSITY			1.30 tons/m ³	BACKGROUND		2.30 ±	0.10 c/s	
SOIL		CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL		12.5 tons		56.6 tons		69.1 tons		
MAXIMUM/SORT		60.5 kg		60.5 kg				
MINIMUM/SORT		0.8 kg		49.9 kg				
VOLUME IN-GROUND		9.9 yd ³		44.8 yd ³		54.7 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		81.9%						
ACTIVITY		PARTICLE		DISPERSED + PARTICLE				
				HOT		CLEAN		
TOTAL		49,048 kBq		16,109 kBq		17,687 kBq		
MAXIMUM/SORT		1,560 kBq		672 kBq		24 kBq		
MINIMUM/SORT		3 kBq		0 Bq		-8 kBq		
SPECIFIC ACTIVITY				1,289 Bq/kg		313 Bq/kg		
SORTS								
20-SEC PROCESS PERIODS				1,141		UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				182		TIME TIME		
NONE (AD=0 & MD=0 & MND>0)				307		08:29 08:00		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				652		11:02 12:42		
UNEXPLAINED RECORDS				0				
0<AD<1kBq & MD>0				2				
AD=0 & MD>0				0				
AD<0 & MD >0				0				
2-SEC COUNT PERIODS				11,410				
2-SEC RECORDS WITH SORTS				1,962				
2-SEC RECORDS WITHOUT SORTS				9,448				
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,103				
NONPROCESSING RECORDS (Test, calibration, etc)				4				
2-SEC SORT DETECTORS								
1 DET		1,413	72.02%	5 DET	3	0.15%		
2 DET		438	22.32%	6 DET	0	0.00%		
3 DET		95	4.84%	7 DET	0	0.00%		
4 DET		13	0.66%	8 DET	0	0.00%		
AVERAGE TIME BETWEEN 2-SEC SORTS				16.2 sec				
FREQUENCY DISTRIBUTIONS								
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	36	3.6%	-14000	0	-231	0.0%	4	2.3%
2	113	11.3%	-12000	0	-198	0.0%	8	42.7%
3	168	16.8%	-10000	0	-165	0.0%	12	17.8%
4	172	17.2%	-8000	0	-132	0.0%	16	9.8%
5	187	18.7%	-6000	1	-99	0.1%	20	6.1%
6	167	16.7%	-4000	1	-66	0.1%	24	3.6%
7	121	12.1%	-2000	4	-33	0.4%	28	2.8%
8	34	3.4%	0	6	0	0.6%	32	2.0%
TOTAL	998		2000	2	33	0.2%	36	1.8%
			4000	1	66	0.1%	40	1.0%
			6000	3	99	0.3%	44	0.9%
2-GATE SORTS			8000	6	132	0.6%	48	1.0%
DET	SORTS	FREQ%						
9	73	7.6%	10000	2	165	0.2%	52	0.8%
10	133	13.8%	12000	12	198	1.2%	56	0.4%
11	181	18.8%	14000	38	231	3.9%	60	0.4%
12	182	18.9%	16000	99	264	10.3%	64	0.6%
13	189	19.6%	18000	208	298	21.6%	68	0.4%
14	128	13.3%	20000	247	331	25.6%	72	0.3%
15	78	8.1%	22000	214	364	22.2%	76	0.4%
TOTAL	964		24000	113	397	11.7%	80	0.3%
			26000	6	430	0.6%	84	0.3%
			>28000	0	0	0.0%	>84	4.5%
			TOTAL	963			TOTAL	1,962
EVENT TYPES		HPE	1,919	MPE	488	DISE	14,113	



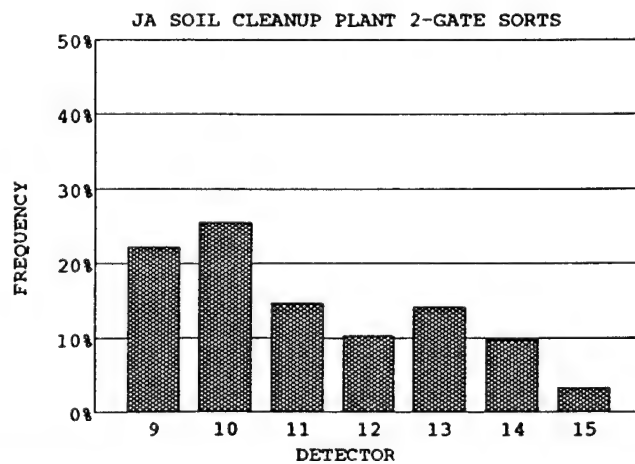
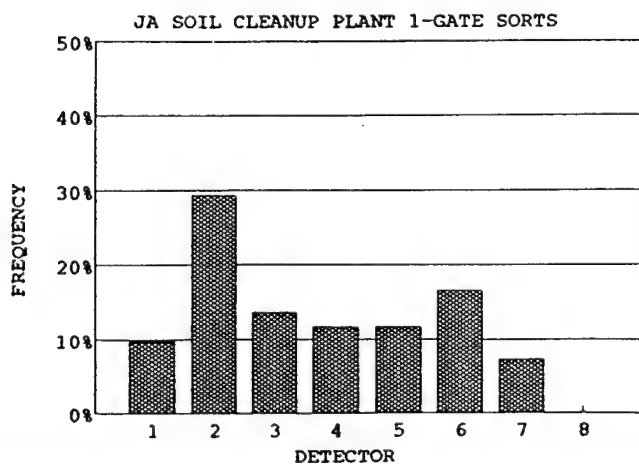
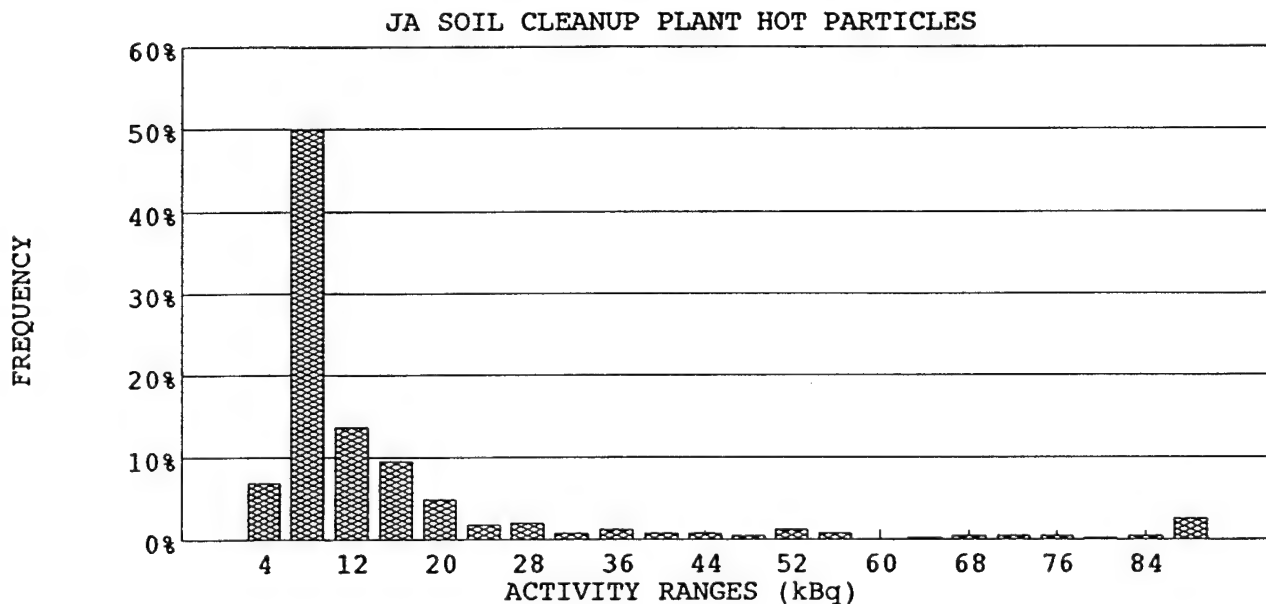
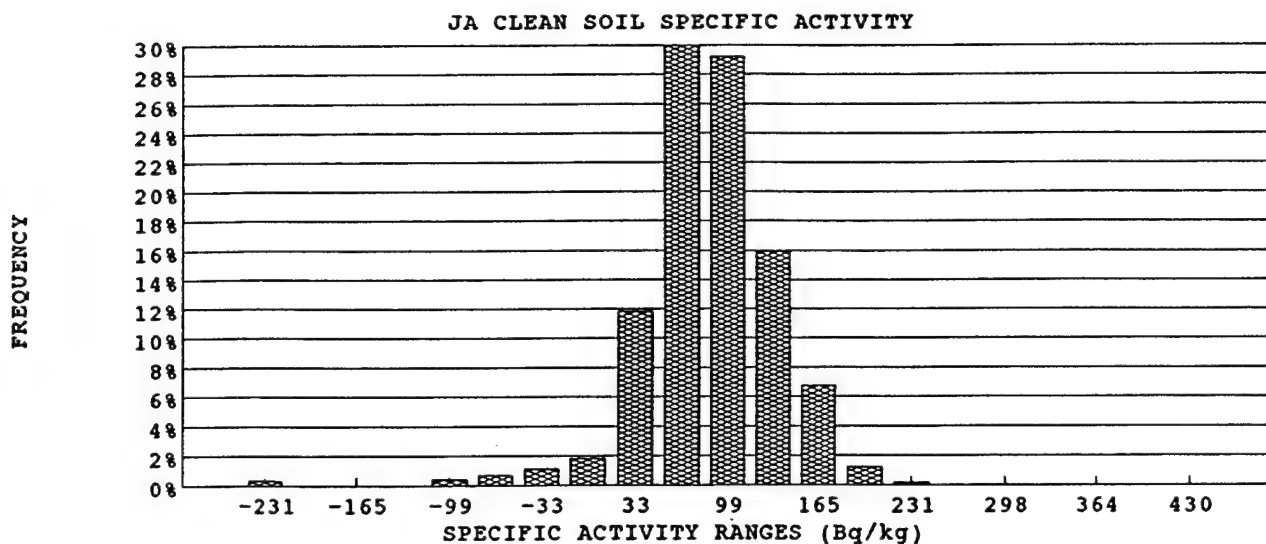
SORTER 2				29-Oct-94					
SORTER SOIL DENSITY			1.30 tons/m ³	BACKGROUND		0.76 ±	0.06 c/s		
SOIL				CONTAMINATED	CLEAN	TOTAL			
MASS TOTAL			23.2 tons	47.4 tons	70.5 tons				
MAXIMUM/SORT			63.0 kg	60.5 kg					
MINIMUM/SORT			0.8 kg	49.9 kg					
VOLUME IN-GROUND			18.4 yd ³	37.5 yd ³	55.9 yd ³				
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))			67.1%						
ACTIVITY				DISPERSED + PARTICLE					
			PARTICLE	HOT	CLEAN				
TOTAL			54,928 kBq	24,126 kBq	14,685 kBq				
MAXIMUM/SORT			1,084 kBq	507 kBq	24 kBq				
MINIMUM/SORT			3 kBq	0 Bq	-9 kBq				
SPECIFIC ACTIVITY				1,041 Bq/kg	310 Bq/kg				
SORTS									
20-SEC PROCESS PERIODS				1,165	UNEXP PAUSE				
ALL 80 ELEMENTS SORT (MD>0&MND=0)				354	TIME TIME				
NONE (AD=0 & MD=0 & MND>0)				171	06:38 06:36				
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				640	11:01 06:38				
UNEXPLAINED RECORDS				0	06:39				
0<AD<1kBq & MD>0				1	12:48				
AD=0 & MD>0				1					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				11,650					
2-SEC RECORDS WITH SORTS				2,506					
2-SEC RECORDS WITHOUT SORTS				9,144					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,671					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		1,757 70.11%	5 DET	3	0.12%				
2 DET		595 23.74%	6 DET	0	0.00%				
3 DET		129 5.15%	7 DET	0	0.00%				
4 DET		22 0.88%	8 DET	0	0.00%				
AVERAGE TIME BETWEEN 2-SEC SORTS				13.3 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)		
1	66	5.2%	-14000	0	-231	0.0%	4	68	2.7%
2	161	12.7%	-12000	0	-198	0.0%	8	1,074	42.9%
3	202	15.9%	-10000	0	-165	0.0%	12	479	19.1%
4	223	17.6%	-8000	2	-132	0.2%	16	246	9.8%
5	227	17.9%	-6000	3	-99	0.4%	20	137	5.5%
6	187	14.8%	-4000	2	-66	0.2%	24	93	3.7%
7	148	11.7%	-2000	2	-33	0.2%	28	52	2.1%
8	53	4.2%	0	3	0	0.4%	32	41	1.6%
TOTAL	1,267		2000	1	33	0.1%	36	49	2.0%
			4000	1	66	0.1%	40	27	1.1%
2-GATE SORTS			6000	1	99	0.1%	44	22	0.9%
DET	SORTS	FREQ%	8000	2	132	0.2%	48	22	0.9%
9	132	10.7%	10000	8	165	1.0%	52	22	0.9%
10	180	14.5%	12000	17	198	2.1%	56	14	0.6%
11	227	18.3%	14000	36	231	4.4%	60	9	0.4%
12	232	18.7%	16000	93	264	11.4%	64	17	0.7%
13	186	15.0%	18000	162	298	19.9%	68	8	0.3%
14	169	13.6%	20000	203	331	24.9%	72	8	0.3%
15	113	9.1%	22000	208	364	25.6%	76	10	0.4%
TOTAL	1,239		24000	70	397	8.6%	80	9	0.4%
			26000	0	430	0.0%	84	4	0.2%
			>28000	0	0	0.0%	>84	95	3.8%
			TOTAL	814			TOTAL	2,506	
EVENT TYPES		HPE	2,424	MPE	979	DISE	27,227		



SORTER 3				29-Oct-94			
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.12 ± 0.09 c/s	
SOIL				CONTAMINATED		CLEAN	
MASS TOTAL				0.3 tons		68.2 tons	
MAXIMUM/SORT				4.5 kg		60.5 kg	
MINIMUM/SORT				0.8 kg		56.0 kg	
VOLUME IN-GROUND				0.2 yd ³		54.1 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.6%			
ACTIVITY				DISPERSED + PARTICLE			
				PARTICLE		HOT	
TOTAL				3,682 kBq		1,037 kBq	
MAXIMUM/SORT				99 kBq		42 kBq	
MINIMUM/SORT				3 kBq		0 Bq	
SPECIFIC ACTIVITY						3,728 Bq/kg	
						114 Bq/kg	
SORTS							
20-SEC PROCESS PERIODS				1,132		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				962		10:04 None	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				170			
UNEXPLAINED RECORDS				0			
0<AD<1kBq & MD>0				1			
AD=0 & MD>0				0			
AD<0 & MD>0				0			
2-SEC COUNT PERIODS				11,320			
2-SEC RECORDS WITH SORTS				310			
2-SEC RECORDS WITHOUT SORTS				11,010			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,442			
NONPROCESSING RECORDS (Test, calibration, etc)				9			
2-SEC SORT DETECTORS							
1 DET 235 75.81%				5 DET 0 0.00%			
2 DET 66 21.29%				6 DET 0 0.00%			
3 DET 9 2.90%				7 DET 0 0.00%			
4 DET 0 0.00%				8 DET 0 0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				96.3 sec			
FREQUENCY DISTRIBUTIONS							
1-GATE SORTS			ACT_ND	NUM	SPEC_A FREQ%	ACT_P	NUM FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)	(kBq)	(#)
1	2	1.3%	-14000	0	-231	0.0%	4 27 8.7%
2	21	13.5%	-12000	0	-198	0.0%	8 141 45.5%
3	14	9.0%	-10000	0	-165	0.0%	12 60 19.4%
4	20	12.8%	-8000	0	-132	0.0%	16 31 10.0%
5	20	12.8%	-6000	0	-99	0.0%	20 14 4.5%
6	35	22.4%	-4000	5	-66	0.4%	24 8 2.6%
7	34	21.8%	-2000	3	-33	0.3%	28 4 1.3%
8	10	6.4%	0	4	0	0.4%	32 1 0.3%
TOTAL	156		2000	14	33	1.2%	36 9 2.9%
			4000	108	66	9.5%	40 2 0.6%
			6000	282	99	24.7%	44 2 0.6%
2-GATE SORTS			8000	379	132	33.2%	48 1 0.3%
DET	SORTS	FREQ%	10000	232	165	20.3%	52 2 0.6%
9	9	5.8%	12000	93	198	8.2%	56 1 0.3%
10	12	7.8%	14000	19	231	1.7%	60 1 0.3%
11	14	9.1%	16000	0	264	0.0%	64 1 0.3%
12	26	16.9%	18000	0	298	0.0%	68 1 0.3%
13	24	15.6%	20000	2	331	0.2%	72 1 0.3%
14	41	26.6%	22000	0	364	0.0%	76 0 0.0%
15	28	18.2%	24000	0	397	0.0%	80 1 0.3%
TOTAL	154		26000	0	430	0.0%	84 0 0.0%
			>28000	0	0	0.0%	>84 2 0.6%
			TOTAL	1,141		TOTAL	310
EVENT TYPES			HPE	321	MPE	45	DISE 0



SORTER 4				29-Oct-94						
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		0.62 ± 0.01 c/s				
SOIL				CONTAMINATED		CLEAN		TOTAL		
MASS TOTAL				0.3 tons		67.2 tons		67.5 tons		
MAXIMUM/SORT				6.1 kg		60.5 kg				
MINIMUM/SORT				0.8 kg		54.5 kg				
VOLUME IN-GROUND				0.3 yd ³		53.3 yd ³		53.5 yd ³		
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.5%						
ACTIVITY				PARTICLE		DISPERSED + PARTICLE		CLEAN		
TOTAL				7,518 kBq		1,736 kBq		4,951 kBq		
MAXIMUM/SORT				1,002 kBq		387 kBq		13 kBq		
MINIMUM/SORT				3 kBq		0 Bq		-3 kBq		
SPECIFIC ACTIVITY						5,225 Bq/kg		74 Bq/kg		
SORTS										
20-SEC PROCESS PERIODS				1,116				UNEXP PAUSE		
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0				TIME TIME		
NONE (AD=0 & MD=0 & MND>0)				912				08:07 None		
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				204				10:25		
UNEXPLAINED RECORDS				0				11:01		
0<AD<1kBq & MD>0				7				11:39		
AD=0 & MD>0				0				12:01		
AD<0 & MD>0				0				12:23		
2-SEC COUNT PERIODS				11,160				12:33		
2-SEC RECORDS WITH SORTS				389						
2-SEC RECORDS WITHOUT SORTS				10,771						
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,505						
NONPROCESSING RECORDS (Test, calibration, etc)				26						
2-SEC SORT DETECTORS										
1 DET		294	75.58%	5 DET		0	0.00%			
2 DET		82	21.08%	6 DET		0	0.00%			
3 DET		13	3.34%	7 DET		0	0.00%			
4 DET		0	0.00%	8 DET		0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				75.9 sec						
FREQUENCY DISTRIBUTIONS										
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	20	9.8%	-14000	4	-231	0.4%	4	27	6.9%	
2	60	29.3%	-12000	0	-198	0.0%	8	194	49.9%	
3	28	13.7%	-10000	0	-165	0.0%	12	53	13.6%	
4	24	11.7%	-8000	0	-132	0.0%	16	37	9.5%	
5	24	11.7%	-6000	5	-99	0.4%	20	19	4.9%	
6	34	16.6%	-4000	8	-66	0.7%	24	7	1.8%	
7	15	7.3%	-2000	13	-33	1.1%	28	8	2.1%	
8	0	0.0%	0	21	0	1.8%	32	3	0.8%	
TOTAL	205		2000	135	33	11.8%	36	5	1.3%	
			4000	347	66	30.4%	40	3	0.8%	
2-GATE SORTS			6000	334	99	29.2%	44	3	0.8%	
DET	SORTS	FREQ%	8000	182	132	15.9%	48	2	0.5%	
9	41	22.3%	10000	77	165	6.7%	52	5	1.3%	
10	47	25.5%	12000	14	198	1.2%	56	3	0.8%	
11	27	14.7%	14000	2	231	0.2%	60	0	0.0%	
12	19	10.3%	16000	0	264	0.0%	64	1	0.3%	
13	26	14.1%	18000	0	298	0.0%	68	2	0.5%	
14	18	9.8%	20000	0	331	0.0%	72	2	0.5%	
15	6	3.3%	22000	0	364	0.0%	76	2	0.5%	
TOTAL	184		24000	0	397	0.0%	80	1	0.3%	
			26000	0	430	0.0%	84	2	0.5%	
			>28000	0	0	0.0%	>84	10	2.6%	
			TOTAL	1,142	TOTAL			389		
EVENT TYPES		HPE	392	MPE	45	DISE	0			



WORK HISTORY - JA SOIL CLEANUP PLANT

31-Oct-94

WORK DAY START	06:00 AM	WORK DAY END	16:30 PM
LUNCH START	11:00 AM	TIME LOST DURING LUNCH	0.0 HR

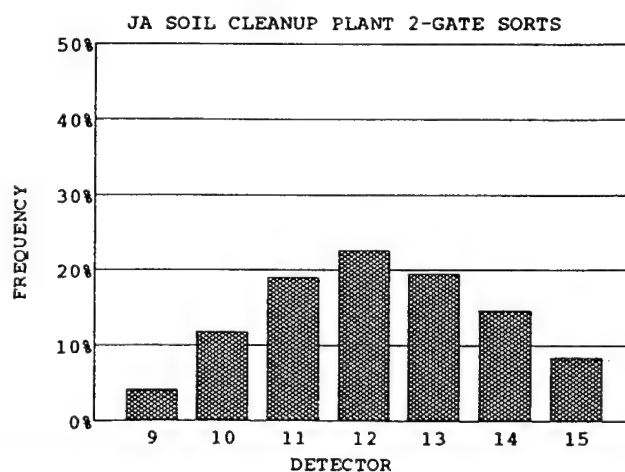
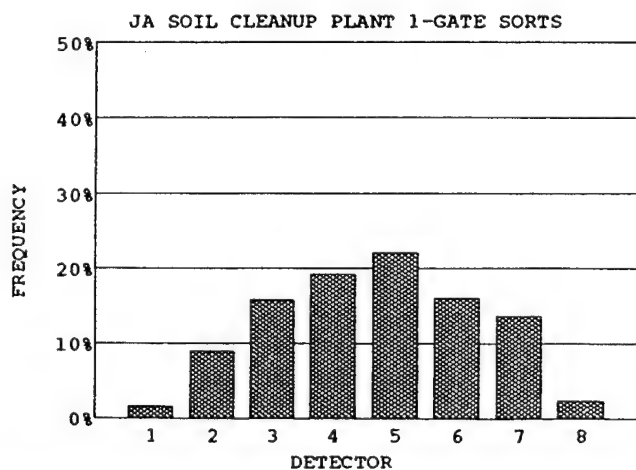
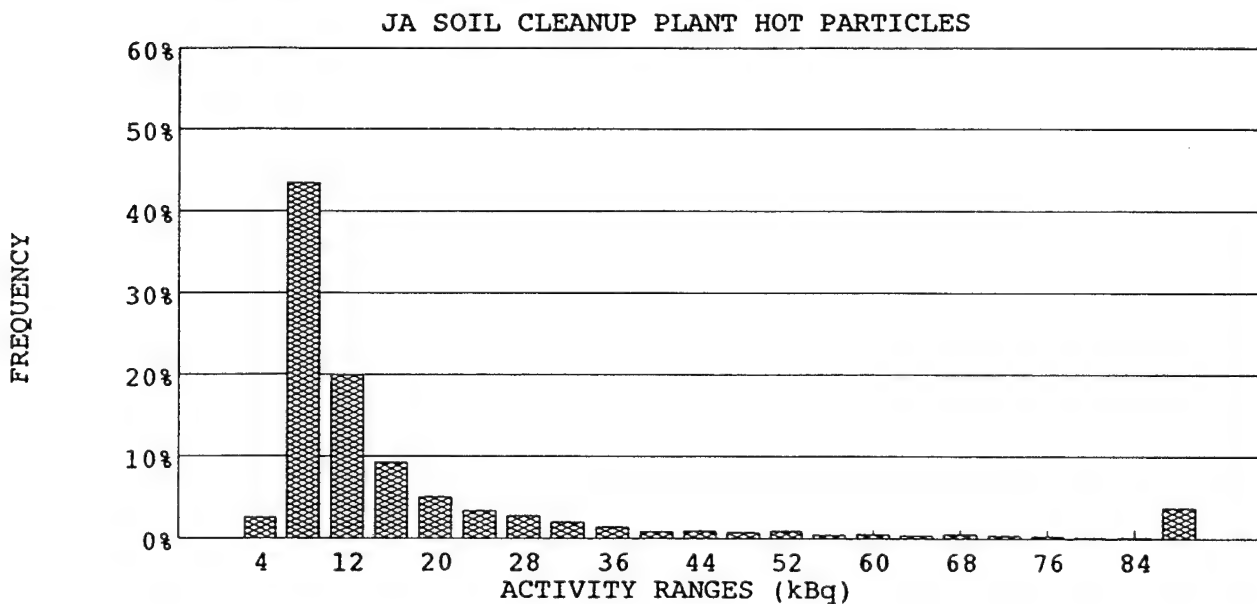
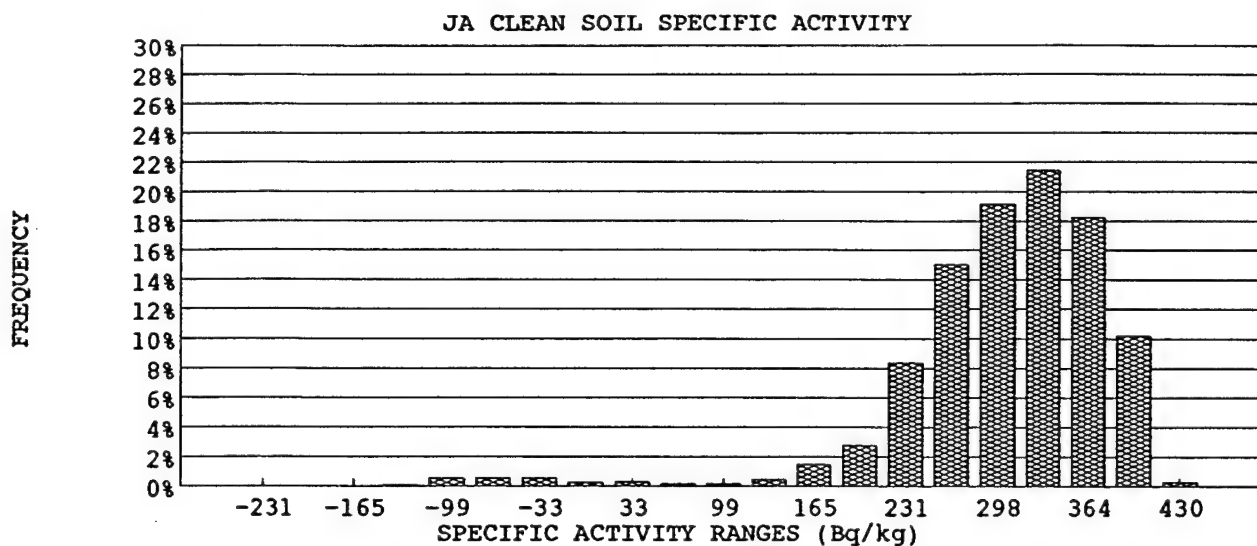
	SORTER 1	SORTER 2	SORTER 3	SORTER 4	TOTAL (sorter hours)
WORK HOURS	10.5 hr	10.5 hr	10.5 hr	10.5 hr	42.0 hr
SORTER AVAILABLE HOURS	9.7 hr	9.7 hr	9.8 hr	9.8 hr	39.1 hr
SORTER START-UP	06:45	06:45	06:40	06:40	
START SOIL PROCESSING	07:06	07:06	07:09	07:09	
TIME REQUIRED TO START-UP	0.4 hr	0.4 hr	0.5 hr	0.5 hr	1.7 hr
SORTER SHUT-DOWN	16:29	16:29	16:29	16:29	
END SOIL PROCESSING	16:10	16:18	16:24	16:21	
TIME REQUIRED TO SHUT DOWN	0.3 hr	0.2 hr	0.1 hr	0.1 hr	0.7 hr
ACTUAL PROCESS HOURS	7.8 hr	8.0 hr	8.5 hr	8.2 hr	32.6 hr
DOWN-TIME	1.9 hr	1.7 hr	1.3 hr	1.6 hr	6.5 hr
SYSTEM PAUSE	1.2 hr	1.2 hr	0.7 hr	1.0 hr	4.1 hr
SORTER NONAVAILABLE TIME	0.8 hr	0.8 hr	0.7 hr	0.7 hr	2.9 hr
AUTHORIZED DELAY TIME	0.8 hr	0.8 hr	0.8 hr	0.8 hr	3.0 hr
PLANT PERFORMANCE					83.3%
PRODUCTIVITY					77.6%

PRODUCTIVITY

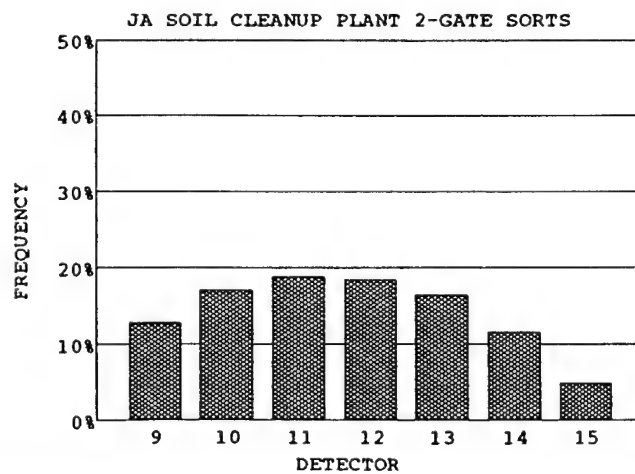
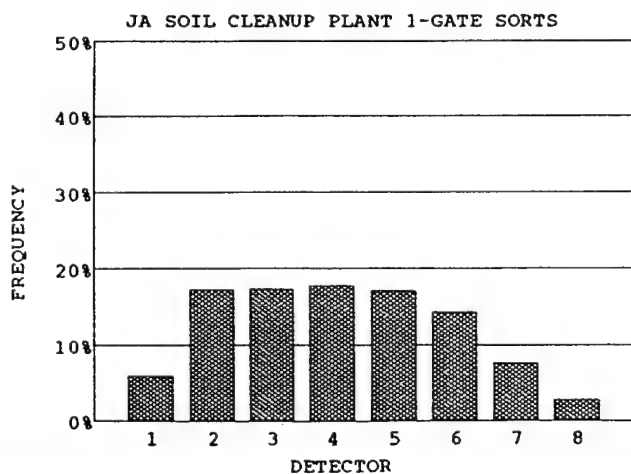
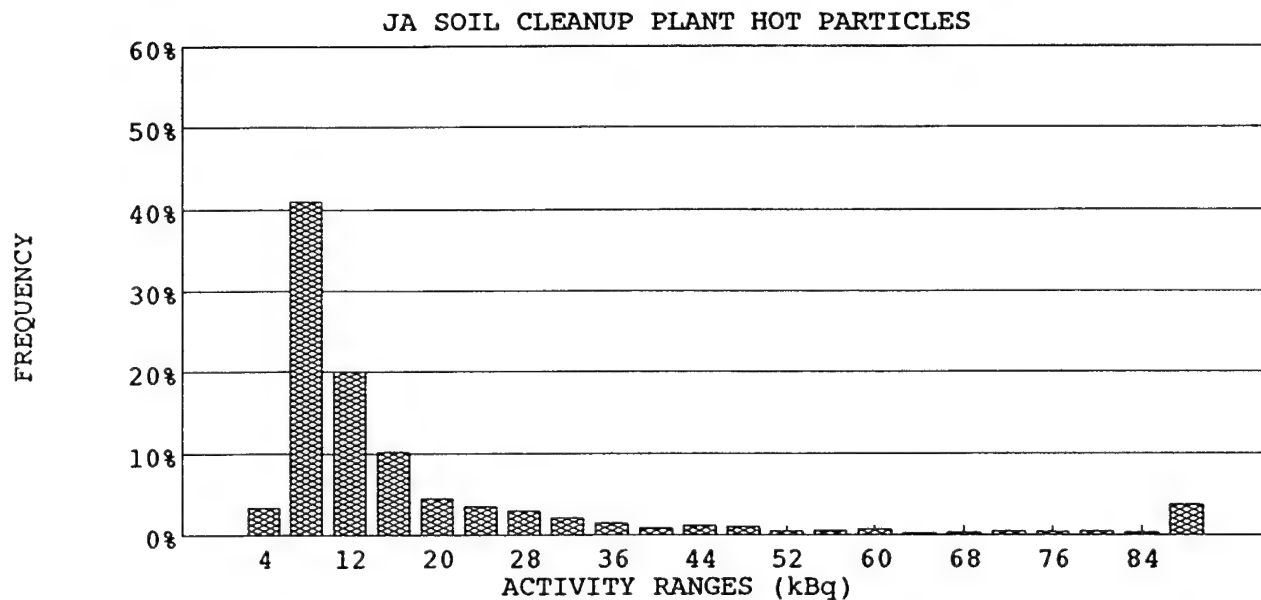
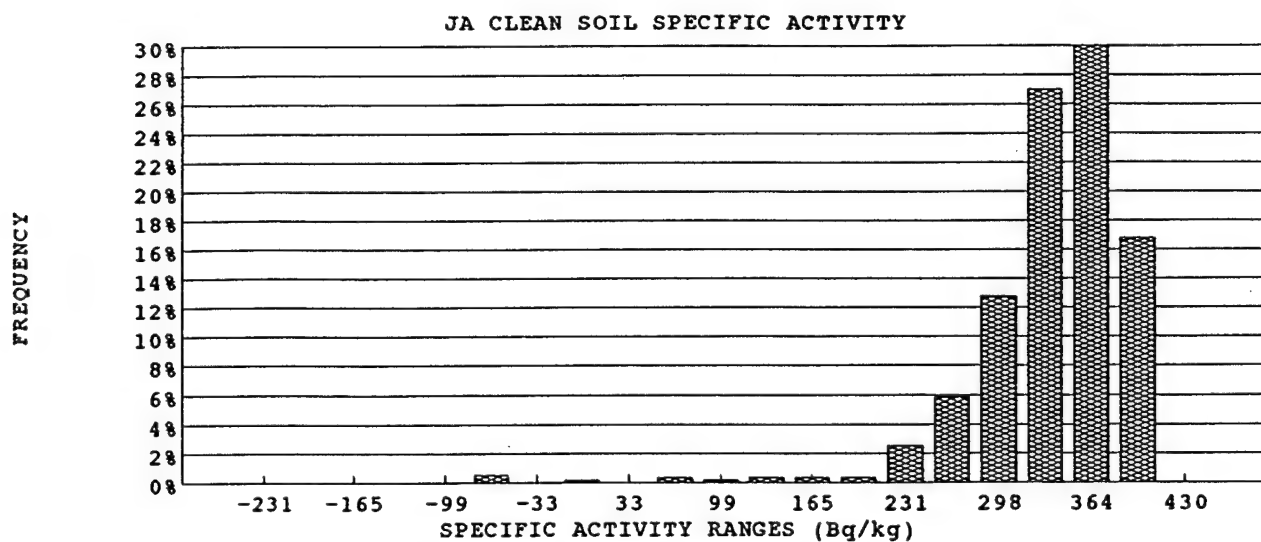
Date	31-Oct-94	Excused Delays for day (sorter-hrs)	3 hr
Contract day (from 6 Sep)	349	Excused delays for contract (sorter-hrs)	7,238 hr
Current Contract week	59	Excused delay days (plant-days)	181 days
		Excused delay months (plant-month)	6.96 months
Soil production for Day	355 MT		
Cumulative Soil Production for Week	355 MT	Percent of contract completed	60.7%
Total Soil production for contract		Tons Ahead or Behind Schedule	2,050 MT
Since 6 Sep 93	59,066 MT	Days ahead or behind schedule	6.5 days
Since 6 Aug 93	60,657 MT		
Total Soil production for project	86,943 MT		

MT = metric tons

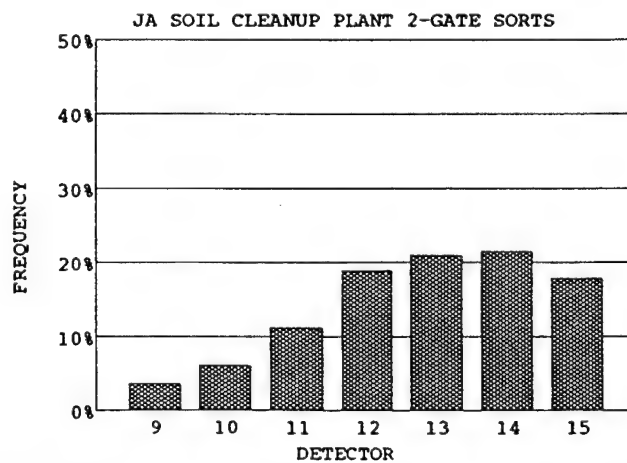
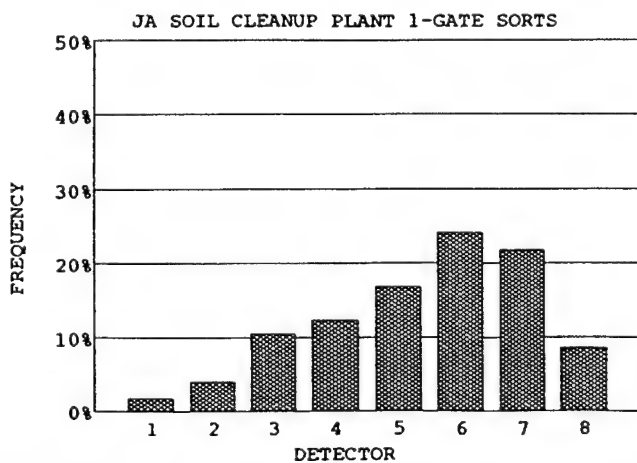
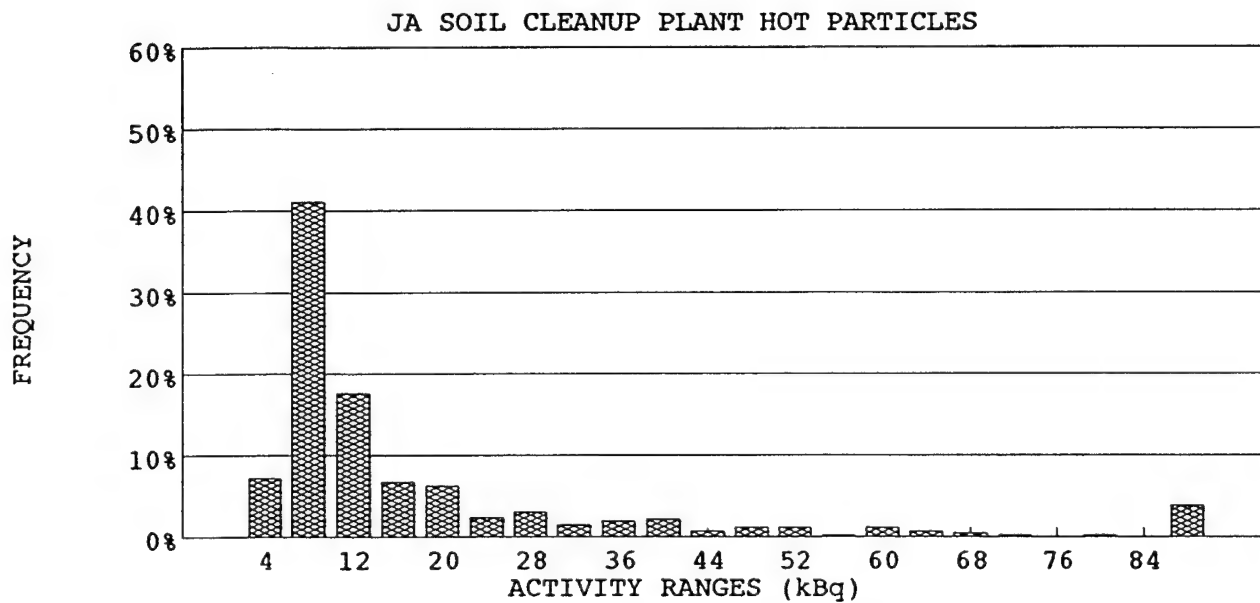
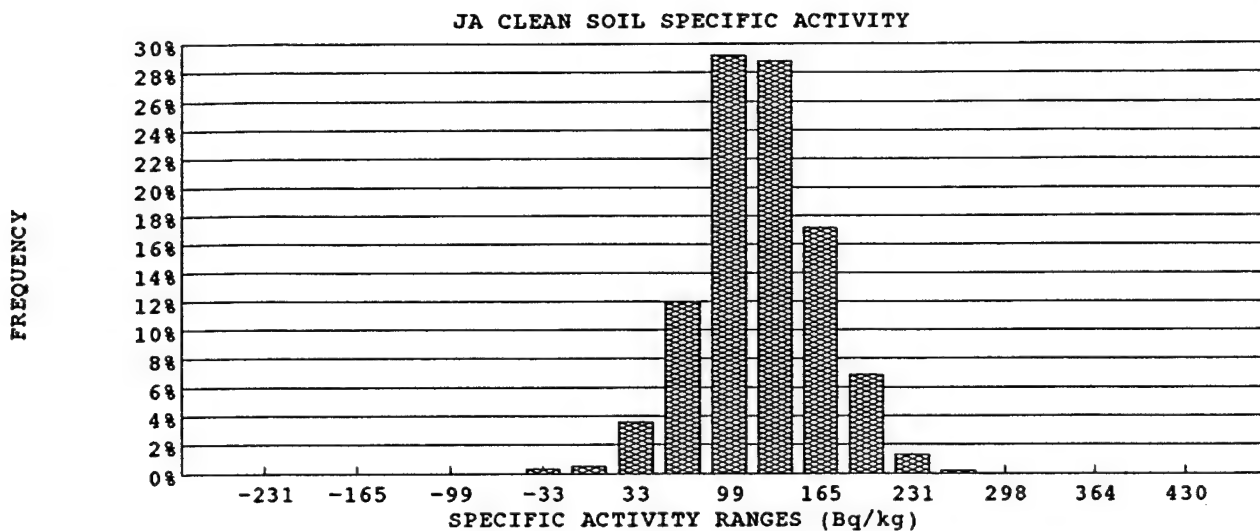
SORTER 1				31-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.35 ± 0.05 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		12.4 tons		72.6 tons		85.0 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		47.7 kg					
VOLUME IN-GROUND		9.8 yd³		57.6 yd³		67.4 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		85.4%							
ACTIVITY				DISPERSED + PARTICLE					
		PARTICLE		HOT		CLEAN			
TOTAL		59,670 kBq		18,222 kBq		21,630 kBq			
MAXIMUM/SORT		2,516 kBq		1,070 kBq		24 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				1,467 Bq/kg		298 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,405		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				175		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				454		08:21 07:06			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				776		08:30 09:38			
UNEXPLAINED RECORDS				0		08:35 13:55			
0<AD<1kBq & MD>0				6		10:54			
AD=0 & MD>0				0		11:22			
AD<0 & MD >0				0		15:36			
2-SEC COUNT PERIODS				14,050					
2-SEC RECORDS WITH SORTS				2,480					
2-SEC RECORDS WITHOUT SORTS				11,570					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				3,885					
NONPROCESSING RECORDS (Test, calibration, etc)				15					
2-SEC SORT DETECTORS									
1 DET		1,716	69.19%	5 DET	12	0.48%			
2 DET		597	24.07%	6 DET	0	0.00%			
3 DET		129	5.20%	7 DET	0	0.00%			
4 DET		26	1.05%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				16.4 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	21	1.7%	-14000	0	-231	0.0%	4	64	2.6%
2	111	9.0%	-12000	0	-198	0.0%	8	1,078	43.5%
3	196	15.8%	-10000	0	-165	0.0%	12	493	19.9%
4	238	19.2%	-8000	1	-132	0.1%	16	229	9.2%
5	274	22.2%	-6000	7	-99	0.6%	20	127	5.1%
6	199	16.1%	-4000	7	-66	0.6%	24	84	3.4%
7	168	13.6%	-2000	7	-33	0.6%	28	68	2.7%
8	30	2.4%	0	3	0	0.2%	32	50	2.0%
TOTAL	1,237		2000	4	33	0.3%	36	35	1.4%
			4000	2	66	0.2%	40	21	0.8%
2-GATE SORTS			6000	2	99	0.2%	44	23	0.9%
DET	SORTS	FREQ%	8000	6	132	0.5%	48	19	0.8%
9	51	4.1%	10000	18	165	1.4%	52	23	0.9%
10	146	11.7%	12000	34	198	2.7%	56	11	0.4%
11	236	19.0%	14000	104	231	8.4%	60	14	0.6%
12	281	22.6%	16000	187	264	15.0%	64	9	0.4%
13	243	19.5%	18000	238	298	19.1%	68	14	0.6%
14	182	14.6%	20000	267	331	21.4%	72	9	0.4%
15	104	8.4%	22000	227	364	18.2%	76	8	0.3%
TOTAL	1,243		24000	127	397	10.2%	80	3	0.1%
			26000	4	430	0.3%	84	4	0.2%
			>28000	0	0	0.0%	>84	94	3.8%
			TOTAL	1,245			TOTAL	2,480	
EVENT TYPES		HPE	2,424	MPE	479	DISE	13,517		



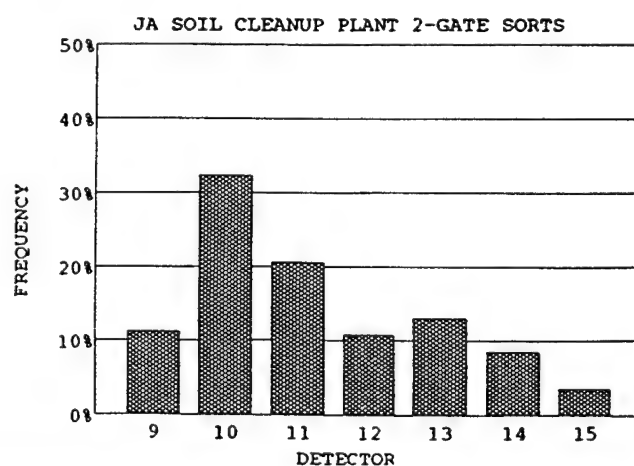
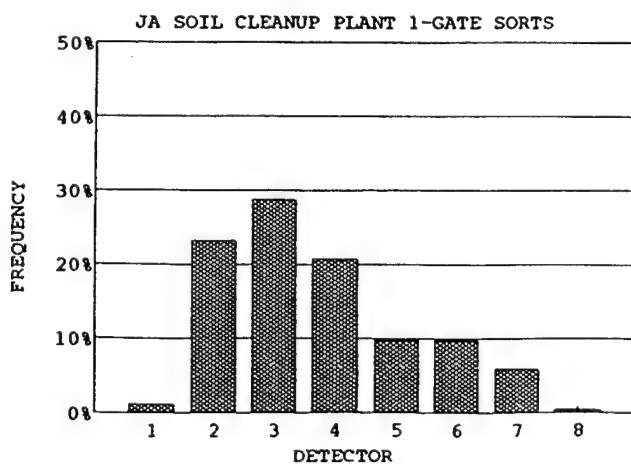
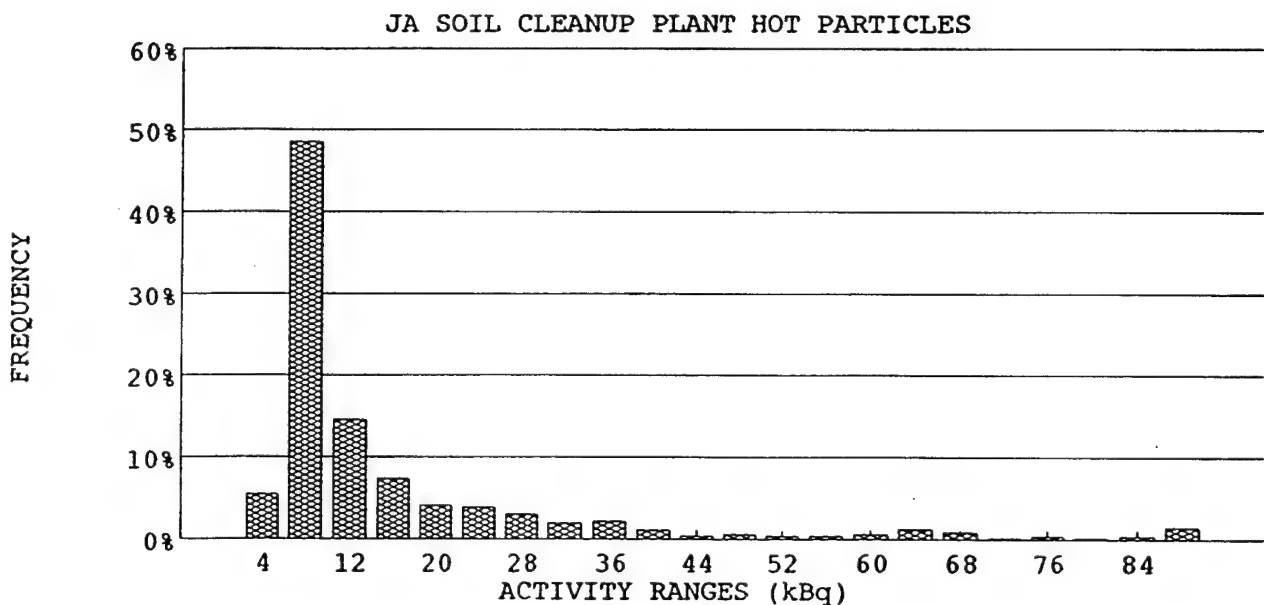
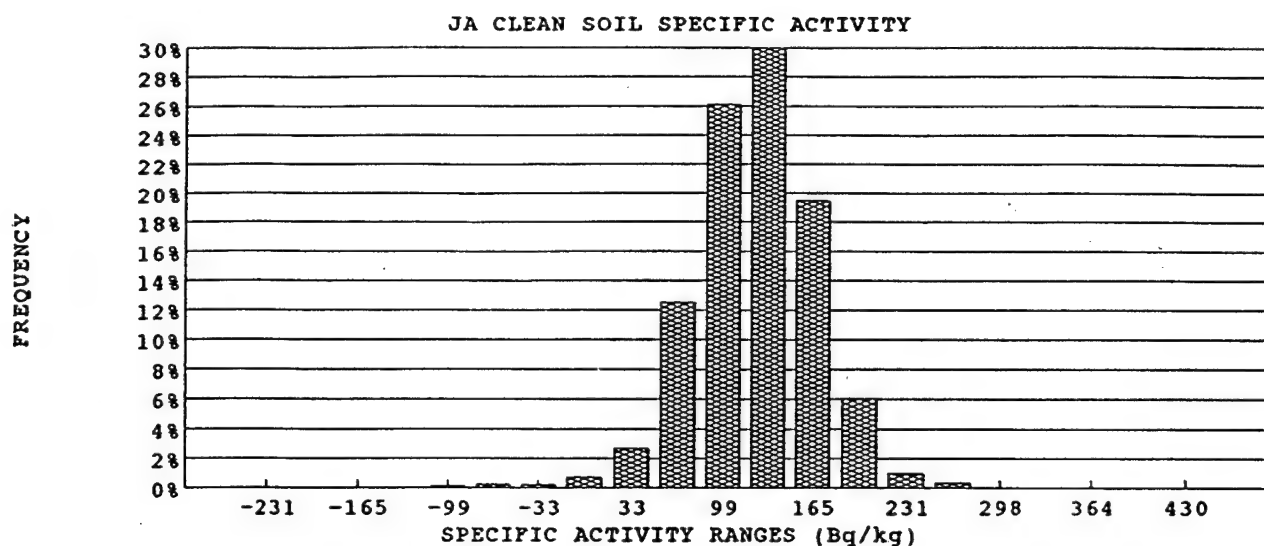
SORTER 2				31-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.53 ± 0.13 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		55.2 tons		32.0 tons		87.2 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		51.5 kg					
VOLUME IN-GROUND		43.8 yd³		25.3 yd³		69.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		36.7%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		69,900 kBq		44,168 kBq		10,575 kBq			
MAXIMUM/SORT		2,988 kBq		1,684 kBq		23 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-0 kBq			
SPECIFIC ACTIVITY				800 Bq/kg		331 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,441		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				896		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				130		13:52 07:06			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				415		09:39			
UNEXPLAINED RECORDS				0		10:32			
0<AD<1kBq & MD>0				1		13:57			
AD=0 & MD>0				0					
AD<0 & MD >0				0					
2-SEC COUNT PERIODS				14,410					
2-SEC RECORDS WITH SORTS				2,869					
2-SEC RECORDS WITHOUT SORTS				11,541					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				4,310					
NONPROCESSING RECORDS (Test, calibration, etc)				3					
2-SEC SORT DETECTORS									
1 DET		1,991	69.40%	5 DET	6	0.21%			
2 DET		684	23.84%	6 DET	0	0.00%			
3 DET		157	5.47%	7 DET	0	0.00%			
4 DET		31	1.08%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2-SEC SORTS				14.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS		ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%	
DET	SORTS	(Bq)	(#)	(Bq/kg)		(kBq)	(#)		
1	87	5.9%	-14000	0	-231	0.0%	4	96	3.3%
2	253	17.2%	-12000	0	-198	0.0%	8	1,175	41.0%
3	254	17.3%	-10000	0	-165	0.0%	12	573	20.0%
4	261	17.8%	-8000	0	-132	0.0%	16	294	10.2%
5	250	17.0%	-6000	0	-99	0.0%	20	129	4.5%
6	210	14.3%	-4000	3	-66	0.5%	24	101	3.5%
7	112	7.6%	-2000	0	-33	0.0%	28	85	3.0%
8	40	2.7%	0	1	0	0.2%	32	62	2.2%
TOTAL	1,467		2000	0	33	0.0%	36	43	1.5%
			4000	2	66	0.4%	40	25	0.9%
2-GATE SORTS			6000	1	99	0.2%	44	35	1.2%
DET	SORTS	FREQ%	8000	2	132	0.4%	48	30	1.0%
9	180	12.8%	10000	2	165	0.4%	52	13	0.5%
10	240	17.1%	12000	2	198	0.4%	56	17	0.6%
11	264	18.8%	14000	14	231	2.6%	60	20	0.7%
12	258	18.4%	16000	32	264	5.8%	64	7	0.2%
13	230	16.4%	18000	70	298	12.8%	68	9	0.3%
14	162	11.6%	20000	148	331	27.0%	72	15	0.5%
15	68	4.9%	22000	179	364	32.7%	76	11	0.4%
TOTAL	1,402		24000	92	397	16.8%	80	13	0.5%
			26000	0	430	0.0%	84	9	0.3%
			>28000	0	0	0.0%	>84	107	3.7%
			TOTAL	548			TOTAL	2,869	
EVENT TYPES		HPE	2,734	MPE	1,714	DISE	68,577		



SORTER 3				31-Oct-94			
SORTER SOIL DENSITY		1.30 tons/m ³		BACKGROUND		2.13 ± 0.04 c/s	
SOIL				CONTAMINATED		CLEAN	
MASS TOTAL				0.4 tons		92.5 tons	
MAXIMUM/SORT				5.3 kg		60.5 kg	
MINIMUM/SORT				0.8 kg		55.2 kg	
VOLUME IN-GROUND				0.3 yd ³		73.3 yd ³	
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))				99.6%		73.6 yd ³	
ACTIVITY				DISPERSED + PARTICLE			
				PARTICLE		HOT	
TOTAL				8,658 kBq		2,318 kBq	
MAXIMUM/SORT				836 kBq		466 kBq	
MINIMUM/SORT				3 kBq		0 Bq	
SPECIFIC ACTIVITY						6,462 Bq/kg	
SORTS							
20-SEC PROCESS PERIODS				1,534		UNEXP PAUSE	
ALL 80 ELEMENTS SORT (MD>0&MND=0)				0		TIME TIME	
NONE (AD=0 & MD=0 & MND>0)				1,315		08:20 09:53	
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				219		10:35 14:08	
UNEXPLAINED RECORDS				0		11:20	
0<AD<1kBq & MD>0				3			
AD=0 & MD>0				0			
AD<0 & MD >0				0			
2-SEC COUNT PERIODS				15,340			
2-SEC RECORDS WITH SORTS				416			
2-SEC RECORDS WITHOUT SORTS				14,924			
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,950			
NONPROCESSING RECORDS (Test, calibration, etc)				6			
2-SEC SORT DETECTORS							
1 DET		290	69.71%	5 DET		0	0.00%
2 DET		99	23.80%	6 DET		0	0.00%
3 DET		25	6.01%	7 DET		0	0.00%
4 DET		2	0.48%	8 DET		0	0.00%
AVERAGE TIME BETWEEN 2-SEC SORTS				105.8 sec			
FREQUENCY DISTRIBUTIONS							
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)
1	4	1.8%	-14000	0	-231	0.0%	4
2	9	4.1%	-12000	0	-198	0.0%	8
3	23	10.5%	-10000	0	-165	0.0%	12
4	27	12.3%	-8000	0	-132	0.0%	16
5	37	16.8%	-6000	0	-99	0.0%	20
6	53	24.1%	-4000	0	-66	0.0%	24
7	48	21.8%	-2000	5	-33	0.3%	28
8	19	8.6%	0	8	0	0.5%	32
TOTAL	220		2000	55	33	3.6%	36
			4000	185	66	12.0%	40
2-GATE SORTS			6000	450	99	29.2%	44
DET	SORTS	FREQ%	8000	444	132	28.8%	48
9	7	3.6%	10000	264	165	17.1%	52
10	12	6.1%	12000	106	198	6.9%	56
11	22	11.2%	14000	20	231	1.3%	60
12	37	18.9%	16000	3	264	0.2%	64
13	41	20.9%	18000	0	298	0.0%	68
14	42	21.4%	20000	0	331	0.0%	72
15	35	17.9%	22000	0	364	0.0%	76
TOTAL	196		24000	0	397	0.0%	80
			26000	0	430	0.0%	84
			>28000	0	0	0.0%	>84
			TOTAL	1,540			TOTAL
EVENT TYPES		HPE	399	MPE	73	DISE	0
							416



SORTER 4				31-Oct-94					
SORTER SOIL DENSITY		1.30 tons/m³		BACKGROUND		2.29 ± 0.09 c/s			
SOIL		CONTAMINATED		CLEAN		TOTAL			
MASS TOTAL		0.6 tons		89.1 tons		89.7 tons			
MAXIMUM/SORT		63.0 kg		60.5 kg					
MINIMUM/SORT		0.8 kg		56.0 kg					
VOLUME IN-GROUND		0.5 yd³		70.6 yd³		71.1 yd³			
WEIGHT RECOVERY (CLEAN/(HOT+CLEAN))		99.3%							
ACTIVITY		PARTICLE		DISPERSED + PARTICLE					
				HOT		CLEAN			
TOTAL		6,866 kBq		1,746 kBq		9,538 kBq			
MAXIMUM/SORT		171 kBq		57 kBq		15 kBq			
MINIMUM/SORT		3 kBq		0 Bq		-7 kBq			
SPECIFIC ACTIVITY				2,814 Bq/kg		107 Bq/kg			
SORTS									
20-SEC PROCESS PERIODS				1,483		UNEXP PAUSE			
ALL 80 ELEMENTS SORT (MD>0&MND=0)				4		TIME TIME			
NONE (AD=0 & MD=0 & MND>0)				1,249		09:15 07:47			
SOME (AD>0&0<MD<MNDmax&MND<MNDmax)				230		09:39 08:14			
UNEXPLAINED RECORDS				0		11:17 09:53			
0<AD<1kBq & MD>0				6		12:43 14:07			
AD=0 & MD>0				0		16:08			
AD<0 & MD >0				0		16:18			
2-SEC COUNT PERIODS				14,830					
2-SEC RECORDS WITH SORTS				459					
2-SEC RECORDS WITHOUT SORTS				14,371					
TOTAL PROCESS RECORDS (2-s SORTS and 20-s PERIODS)				1,942					
NONPROCESSING RECORDS (Test, calibration, etc)				8					
2-SEC SORT DETECTORS									
1 DET		335	72.98%	5 DET	1	0.22%			
2 DET		99	21.57%	6 DET	0	0.00%			
3 DET		20	4.36%	7 DET	0	0.00%			
4 DET		4	0.87%	8 DET	0	0.00%			
AVERAGE TIME BETWEEN 2- SEC SORTS				88.5 sec					
FREQUENCY DISTRIBUTIONS									
1-GATE SORTS			ACT_ND	NUM	SPEC_A	FREQ%	ACT_P	NUM	FREQ%
DET	SORTS	FREQ%	(Bq)	(#)	(Bq/kg)		(kBq)	(#)	
1	3	1.3%	-14000	0	-231	0.0%	4	25	5.4%
2	55	23.3%	-12000	0	-198	0.0%	8	223	48.6%
3	68	28.8%	-10000	0	-165	0.0%	12	67	14.6%
4	49	20.8%	-8000	0	-132	0.0%	16	34	7.4%
5	23	9.7%	-6000	2	-99	0.1%	20	19	4.1%
6	23	9.7%	-4000	4	-66	0.3%	24	18	3.9%
7	14	5.9%	-2000	3	-33	0.2%	28	14	3.1%
8	1	0.4%	0	11	0	0.7%	32	9	2.0%
TOTAL	236		2000	40	33	2.7%	36	10	2.2%
			4000	186	66	12.5%	40	5	1.1%
2-GATE SORTS			6000	388	99	26.1%	44	2	0.4%
DET	SORTS	FREQ%	8000	453	132	30.5%	48	3	0.7%
9	25	11.2%	10000	290	165	19.5%	52	2	0.4%
10	72	32.3%	12000	90	198	6.1%	56	2	0.4%
11	46	20.6%	14000	15	231	1.0%	60	3	0.7%
12	24	10.8%	16000	5	264	0.3%	64	6	1.3%
13	29	13.0%	18000	0	298	0.0%	68	4	0.9%
14	19	8.5%	20000	0	331	0.0%	72	1	0.2%
15	8	3.6%	22000	0	364	0.0%	76	2	0.4%
TOTAL	223		24000	0	397	0.0%	80	1	0.2%
			26000	0	430	0.0%	84	2	0.4%
			>28000	0	0	0.0%	>84	7	1.5%
			TOTAL	1,487			TOTAL	459	
EVENT TYPES		HPE	457	MPE	39	DISE	323		



APPENDIX D

AUTHORIZED DELAYS

Table D-1. Johnston Atoll Plutonium Contaminated Soil Cleanup Project - Authorized Delays.

Week Ending	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Weekly Total	Project Total
07-Aug-94	20.0	21.4	20.0	24.0	20.0	20.0	125.4	125.4
14-Aug-94	20.0	20.4	20.0	20.8	33.4	20.0	134.6	260.0
21-Aug-94	21.0	21.0	20.0	20.0	20.0	18.0	120.0	380.0
28-Aug-94	35.0	33.5	40.0	40.0	40.0	40.0	228.5	608.5
03-Sep-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	848.5
11-Sep-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	1,088.5
18-Sep-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	1,328.5
25-Sep-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	1,568.5
02-Oct-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	1,808.5
09-Oct-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	2,048.5
16-Oct-94	40.0	40.0	40.0	40.0	40.0	40.0	240.0	2,288.5
23-Oct-94	40.0	40.0	27.0	5.8	0.0	0.0	112.8	2,401.3
30-Oct-94	0.0	0.0	20.8	2.4	0.0	0.0	23.2	2,424.5
31-Oct-94	3.0							2,427.5
								Sorter Hrs
								607 Regular Hrs
								19,238 Excused Quota
								25,017 Regular Quota
								5,779 Adjusted Quota
								6,129 Qtr Production

APPENDIX E

ACRONYMS AND SYMBOLS

AC	-	Cumulative activity present in soil which was found to meet the release criteria
ACT_ND	-	Activity Not Diverted
ACT_P	-	Activity Plutonium
AH	-	Total activity diverted - due to distributed contamination present in the soil in excess of 500 Bq/kg
ALARA	-	As Low As Reasonable Achievable
AP	-	Total activity diverted - due to particles present in the soil which exceeded 5,000 Bq
BKG	-	Background
Bq	-	Bequerels
CFM	-	Cubic Feet Per Minute
cpm	-	Counts Per Minute
DISE	-	Distributed Event
DNA	-	Defense Nuclear Agency
dps	-	Disintegrations Per Second
FCJ	-	Field Command, Johnston Atoll
FIDLER	-	Field Instrument for Detection of Low Energy Radiation
HPE	-	Hot Particle Event
JA	-	Johnston Atoll
KeV	-	Kilo Electron Volts
kg	-	Kilogram
LE-1	-	Launch Emplacement One
LE-2	-	Launch Emplacement Two
ml	-	Milliliter
MPE	-	Multiple Particle Event
mt	-	Metric Tons
PHA	-	Pulse Height Amplitude
PPE	-	Personal Protective Equipment
QC	-	Quality Control
RCA	-	Radiologically Controlled Area
RSN	-	Raytheon Services Nevada
SA	-	Specific Activity, Bequerels Per Kilogram
SH	-	Sorter-Hours
SPEC_A	-	Specific Activity
TRU	-	Transuranic
WR	-	Percent Weight Reduction
WS1	-	Weigh Scale, Unit 1 & 2 Grizzly Feed Belt
WS2	-	Weigh Scale, Unit 1 & 2 Sorter Feed Belt
WS3	-	Weigh Scale, Unit 1 & 2 Clean Soil Belt
WS4	-	Weigh Scale, Unit 1 & 2 Diverted Soil Belt
WS5	-	Weigh Scale, Unit 3 & 4 Sorter Feed Belt
WS6	-	Weigh Scale, Unit 3 & 4 Clean Soil Belt
WS7	-	Weigh Scale, Unit 3 & 4 Diverted Soil Belt
WS8	-	Weigh Scale, Wet-End Feed Belt

APPENDIX F

DEFINITIONS

- Authorized Delay - Time during the normal 60 hour work specified in the contract in which soil processing is not accomplished due to circumstances beyond the control of the contractor, as approved by DNA.
- These include, but are not limited to :
- Inclement weather,
Plant modifications requested by DNA,
Plant testing required by DNA, and
Lack of government furnished equipment or services as specified in the contract.
- Becquerel - A unit in the International System of Units (SI) for the measurement of radioactivity equivalent to one Transformation Per Second.
- Clean Soil - Soil which has been verified to contain less than 500 Bq/kg total TRU activity averaged over .1 m³ of soil and no discrete radioactive particle of 5000 Bq or more.
- Down-Time - Time during the normal 60 hour work week specified in the contract in which soil processing is not accomplished due to plant maintenance or repair. Normal start-up and shut-down and Authorized Delay Time does not count as Down-Time. The contract requires that Down-Time be maintained less than 40%.
- Hot Particle - An individual particle whose activity level is 5000 Bq or greater.
- Transuranic - Element with an atomic number higher than that of Uranium (e.g. Plutonium, Americium).
- 2-Second Sort Detection - When a hot particle passes underneath a detector, the detector generates a signal to the computer, which in turn activates one of the eight diversion chutes for two seconds, as required by the Segmented Gate System.

DISTRIBUTION LIST

DSWA-TR-95-102

DEPARTMENT OF DEFENSE

DEFENSE SPECIAL WEAPONS AGENCY

ATTN: K BRICE

2 CY ATTN: ISST

ATTN: JOHN EDDY

DEFENSE TECHNICAL INFORMATION CENTER

2 CY ATTN: DTIC/OCP

FIELD COMMAND DEFENSE SPECIAL WEAPONS AGENCY

2 CY ATTN: CDR W R ARGUELLO

DEPARTMENT OF ENERGY

DEPARTMENT OF ENERGY

ATTN: JOHN MATHER

OAKRIDGE NATIONAL LABORATORY

ATTN: MARY J WILSON-NICHOLS

DEPARTMENT OF DEFENSE CONTRACTORS

JAYCOR

2 CY ATTN: CYRUS P KNOWLES

KAMAN SCIENCES CORPORATION

ATTN: DASIAC

THERMO NUTECH

2 CY ATTN: NELS JOHNSON

THERMO NUTECH

2 CY ATTN: RICK DOANE

2 CY ATTN: ROBERT GRANT